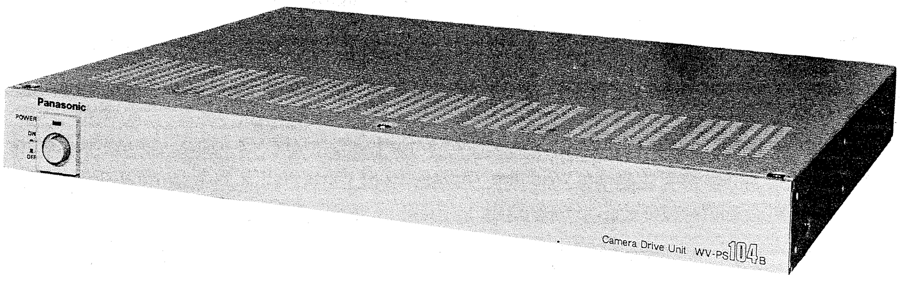
ORDER NO. AVS9206580C8

Service Manual

Camera Drive Unit

WV-PS104B



SPECIFICATIONS

Power Source :	220 - 240V AC 50 Hz Main input voltage accepts 220 through 240V as power source
Power Consumption :	Approx. 72W
Camera Input :	1.0 Vp-p/75 ohms, BNC connector ×4
Video Output :	1.0 Vp-p/75 ohms, BNC connector ×4
Audio Output :	−10 dB/600 ohms unbalanced, RCA pin jack ×4
Power Supply for Cameras :	Regulated current multiplex method (350 mA)
Maximum Distance to the Camera :	(see table below)

Maximum Distance to the Camera :

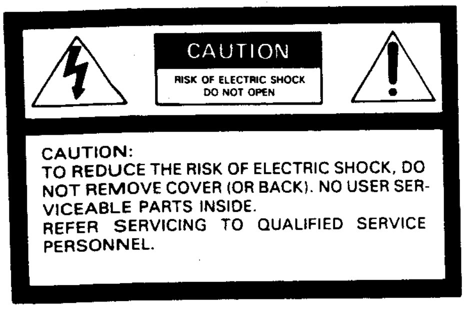
Coaxial Cable Type	DC R/1000 ft. of Inner Conductor	Maximum Cable Length
RG-59/U	Less than 30 ohms	200 m (660 ft.)
RG-6/U	Less than 12 ohms	500 m (1650 ft.)

The maximum resistance of the cable between the camera and camera drive unit is 20 ohms.

VD/SYNC Input :	4.0 Vp-p/75 ohms Negative going, BNC connector ×1
VD/SYNC Output :	4.0 Vp-p/75 ohms Negative going, BNC connector ×1
Lifetime of Cooling Fan Unit :	Approx. 30,000 hours
Ambient Operating Temperature :	−10°C - +50°C (14°F - 122°F)
Ambient Operating Humidity :	Less than 90%
Dimensions :	420 (W) × 44 (H) × 350 (D) mm 16-9/16" (W) × 1-3/4" (H) × 13-3/4" (D)
Weight :	4.2 kg (9.3 lbs.)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

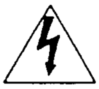
Panasonic



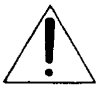
CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may have suificient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

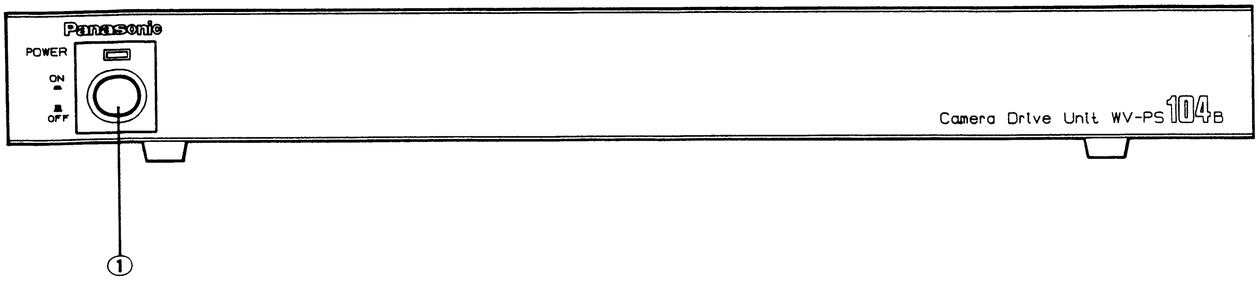


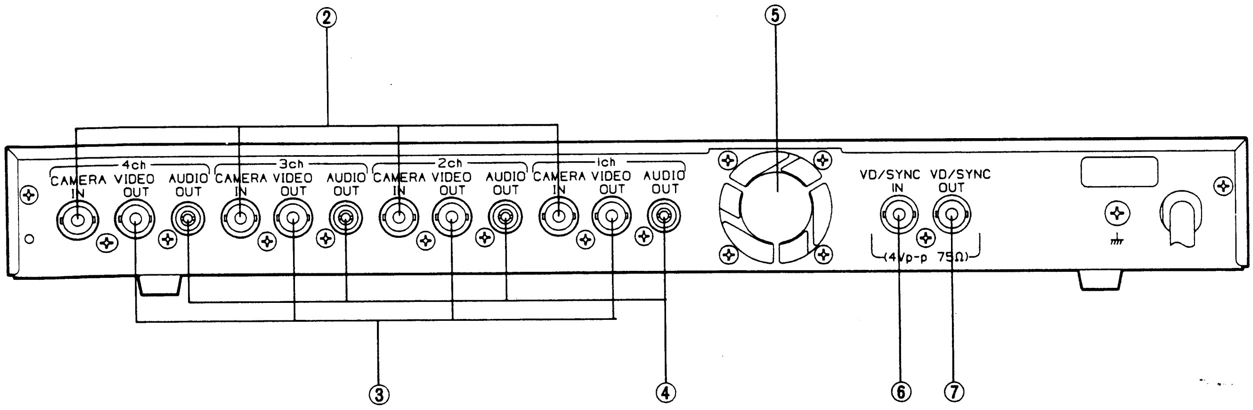
This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included.
Therefore, it should be read carefully in order to avoid any problems.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the " ⚠ " mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be repleced with manufacture's specified parts to prevent shock, fire, or other hazards.
Do not modify the original design without permission of manufacture.

MAJOR OPERATING COMPONENTS AND THEIR FUNCTIONS


Panasonic
POWER
ON
OFF
Camera Drive Unit WV-PS104B
①


②
⑤
4ch
CAMERA IN
VIDEO OUT
AUDIO OUT
3ch
CAMERA IN
VIDEO OUT
AUDIO OUT
2ch
CAMERA IN
VIDEO OUT
AUDIO OUT
1ch
CAMERA IN
VIDEO OUT
AUDIO OUT
VD/SYNC IN
VD/SYNC OUT
(4Vp-p 75Ω)
③
④
⑥
⑦

1. **Power ON/OFF Switch (POWER, ON/OFF)**
   Used to turn on or off the specified camera and camera drive unit. The unit is turned on and the power indicator lights up.

2. **Camera Input Connector (CAMERA IN, 1 - 4ch)**
   Used to accept the coaxial cable from the specified camera. It supplies DC power and vertical drive pulses or composite sync signal to the camera, and receive video and audio signals from the camera.

3. **Video Output Connector (VIDEO OUT, 1 - 4ch)**
   Used to connect the coaxial cable to the monitor, video switcher or VTR. Video output signal is provided at this connector.

4. **Audio Output Connector (AUDIO OUT, 1 - 4ch)**
   Used to connect the audio cable to the monitor. Audio output signal is provided at this connector. (Used with the camera WV-CL120)

5. **Cooling Fan Unit**
   Rotates to prevent from rising temperature of the heat sink.

   Note :

   Do not block the ventilation opening or slots on the top cover to prevent the appliance from rising temperature. Power indicator blinks under condition when the temperature rises unusual. Do take immediate action if ever the power indicator becomes blink, turn the power off and refer servicing to qualified service personal.

6. **VD/SYNC Input Connector (VD/SYNC IN)**
   Used to accept the coaxial cable from the camera drive unit.
   The video signal of the camera is synchronized to the VD (Vertical Drive) or composite sync signal which is provided at this connector from other camera drive unit.

7. **VD/SYNC Output Connector (VD/SYNC OUT)**
   Used to connect the coaxial cable to the camera drive unit. The VD (Vertical Drive) or composite sync signal is supplied to other camera drive unit.

   Note :

   Be sure to connect specified camera to camera input (1ch), sync signal is only supplied on this condition.

ADJUSTMENT PROCEDURE

1. Test Equipment Required

The following test equipments are required for adjusting Camera Drive Unit WV-PS104B.

- DC current meter
- FM standard signal generator
- Oscilloscope (More than 20 MHz band width)
- Digital volt meter
- Camera (WV-BL90)

2. Disassembling for Adjustment

- Remove five screws fixing the upper cover and remove the upper cover. (Fig. 2-1)

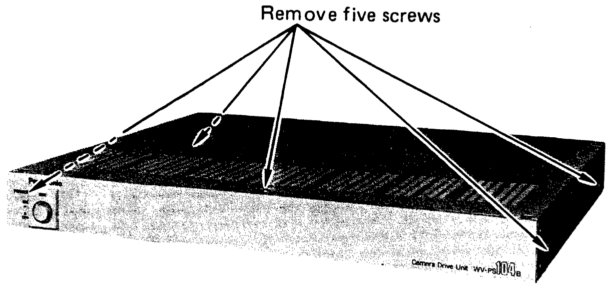

Remove five screws
Camera Drive Unit WV-PS104B

Fig. 2-1

3. Adjustment Procedure

3-1 Camera DC current adjustment

Test points : **CAMERA IN connectors (1ch~4ch)**
Adjusts : **VR1, 201, 401, 601**

- Turn OFF the power switch.
- Connect the DC current meter between the camera and camera drive unit as shown. (Fig. 3-1)

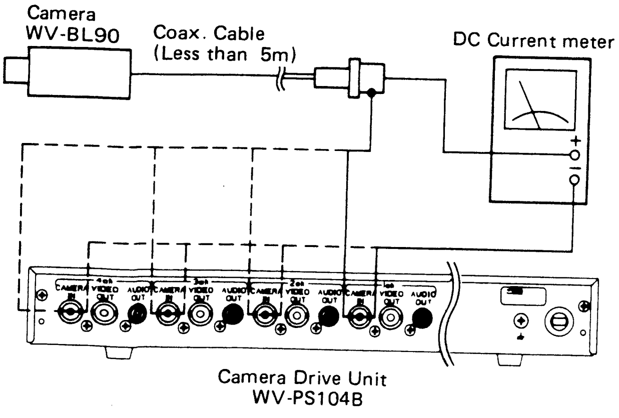

Camera
WV-BL90
Coax. Cable
(Less than 5m)
DC Current meter
+
−
Camera Drive Unit
WV-PS104B

Fig. 3-1

- Turn ON the power switch.

  Note : Keep the power switch in the OFF position during the connections.
- Adjust VR1 for 1ch so that the DC current meter becomes 350 mA ± 1 mA.
- Turn off the power, and confirm that the DC current is not changed when turned on the power again.
- The same as above, adjust VR201 (2ch), VR401 (3ch) and VR601 (4ch) so that the DC current becomes 350 mA ± 1 mA in similar way of 1ch.

3-2 Alignment frequency adjustment

Test points : **TP1, 201, 401, 601**
Adjusts : **L4, 204, 404, 604**

- Turn off the power switch.
- Connect the equipments as shown. (Fig. 3-2)

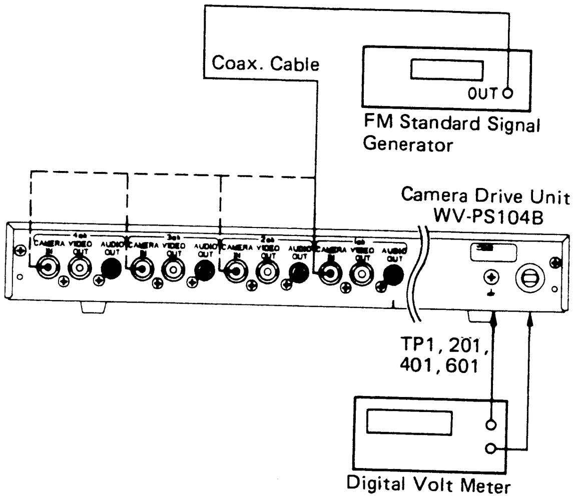

Coax. Cable
OUT
FM Standard Signal
Generator
Camera Drive Unit
WV-PS104B
TP1, 201,
401, 601
Digital Volt Meter

Fig. 3-2

- Turn the VR2 (1ch) to fully clockwise position.
- Set the FM standard signal generator conditioned below.

Carrier frequency :	11.2 MHz
Modulation frequency :	1 KHz
Frequency deviation :	50 KHz ± 2 KHz
Output level :	96 dBμV

- Tune the power on and connect the digital Volt meter to TP1 for 1ch.
- Adjust L4 for 1ch so that the DC voltage becomes 4.3V ± 0.1V.

  Note : This adjustment should be done until one minute after the power is turned on.
- Confirm that the DC voltage is 4.5V ± 0.5V at 30 minute after the power is turned on.
- Adjust L204 (2ch), L404 (3ch) and L604 (4ch) so that the DC voltage becomes 4.3V ± 0.1V in similar way of 1ch.

3-3 Audio output level adjustment

Test point : **C74⊕, C274⊕, C474⊕, C674⊕ lead on Main Board**
Adjusts : **VR3, 203, 403, 603**

Note : This adjustment should be done after finished adjustment of 3-2.

- Confirm that the VR2 (1ch) is positioned fully clockwise.
- Connect the prove of oscilloscope to C74⊕ lead on the Main Board.
- Adjust VR3 so that the output level becomes 1.5 Vp-p ± 0.02 V p-p observing the oscilloscope.
- Adjust VR203 (2ch), VR403 (3ch) and VR603 (4ch) so that the output level becomes 1.5 Vp-p ± 0.02 Vp-p in similar way of 1ch.

3-4 Mute level adjustment

Test points : **C74⊕, C274⊕, C474⊕, C674⊕ lead on Main Board**
Adjusts : **VR2, 202, 402, 602**

Note : This adjustment should be done after finished adjustment of 3-3.

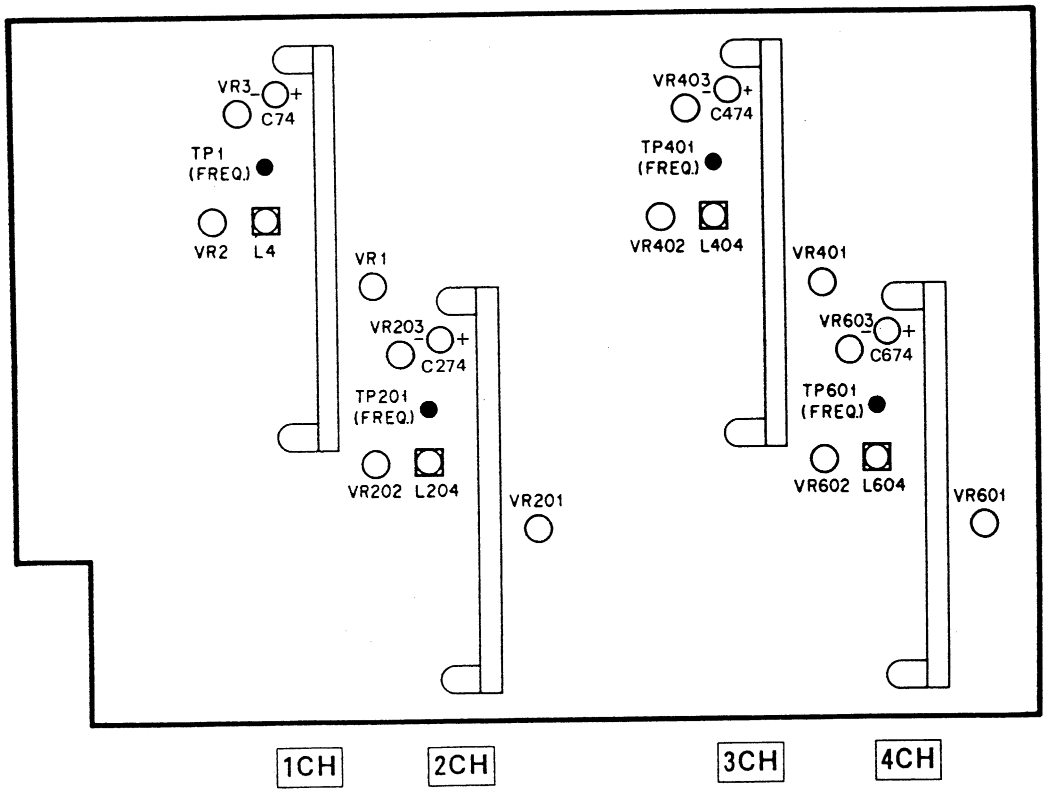
- Set the FM standard signal generator conditioned below.

Carrier frequency : 11.2 MHz
Modulation frequency : 1 KHz
Frequency deviation : 50 KHz ± 2 KHz
Output level : 65 dBμV

- Turn VR2 (1ch) to counterclockwise observing the oscilloscope.
  Adjust VR2 so that the output level becomes 1.3 Vp-p ± 0.02 Vp-p.
- Set the FM standard signal generator so that the output level becomes 63 dBμV, and confirm that the output level is less than 700 mVp-p.
- Adjust VR203 (2ch), VR403 (3ch) and VR603 (4ch) in similar way of 1ch.

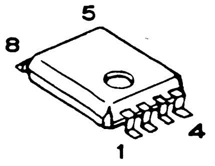
LOCATION OF TEST POINTS AND ADJUSTING CONTROLS

MAIN CIRCUIT BOARD

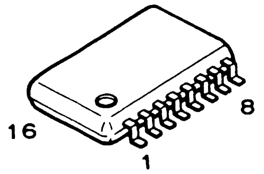

VR3
C74
TP1 (FREQ.)
VR2
L4
VR1
VR203
C274
TP201 (FREQ.)
VR202
L204
VR201
VR403
C474
TP401 (FREQ.)
VR402
L404
VR401
VR603
C674
TP601 (FREQ.)
VR602
L604
VR601
1CH
2CH
3CH
4CH

APPEARANCE OF IC, TRANSISTOR AND DIODE

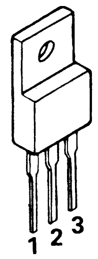
HD14011BFP
NJM4560M
YWNJM2403M
YWM51957BFP



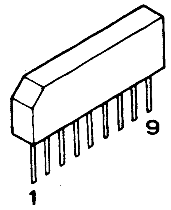
HD14049UBFP



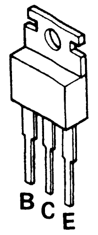
YWNJM78M09FA



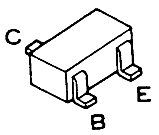
YWTA7303P



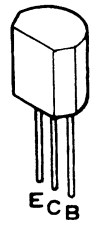
2SA748 - QR



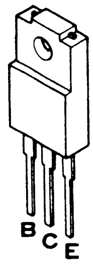
2SB709 - QRS
2SB710 - QRS
2SD2404 - CD
2SD601 - RS
2SD602 - QRS
DTC343TF



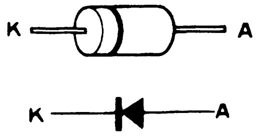
2SC1384 - QRS



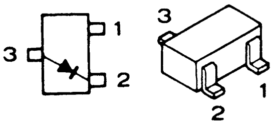
2SC3559



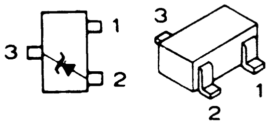
ES1F
RG2Z



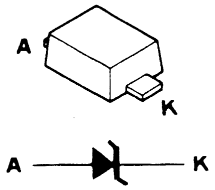
MA151A
MA152A



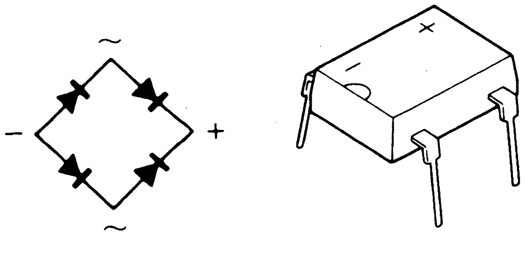
MA3043M
MA3051M
MA3240M



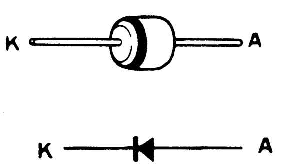
MA8051M
MA8160



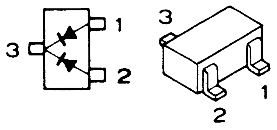
S1WBA60



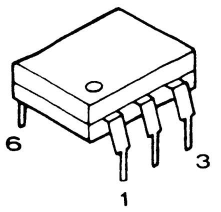
YWAM01Z



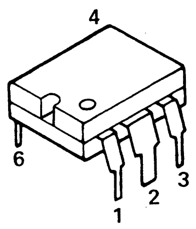
YWDAN202K



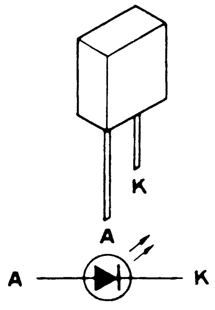
YWPC111



AN6530



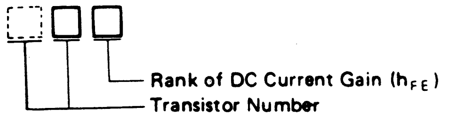
LN242RP



CHIP COMPONENTS

1. Chip Transistor

The transistor number is indicated on the top surface of the chip transistor using two alphabet letters or one numerical and two alphabet letters.


Rank of DC Current Gain (h_{FE})
Transistor Number

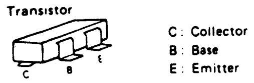
Transistor Number

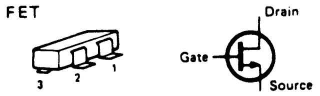
Letter	Transistor No.	Letter	Transistor No.
A	2SB709	X	2SD602A
B	2SB709A	Y	2SD601
C	2SB710	Z	2SD601A
D	2SB710A	1Z	2SD1030
E	2SA1022	1N	2SK199
F	2SA1034	1O	2SK198
H	2SA1035	1A	2SB799
I	2SB792	1B	2SB814
K	2SC2778	1C	2SB902
P	2SD814	1F	2SK321
Q	2SD813	1L	2SK247
R	2SC2480	1K	2SK316
S	2SC2405	1M	2SJ84
T	2SC2406	1T	2SC3077
U	2SC2404	1X	2SC2845
V	2SC2295	2B	2SK374
W	2SD602	2C	2SK116

Example

WQ ⟶ 2SD602 – Q
YQ ⟶ 2SD601 – Q
1BS ⟶ 2SB814 – S

Appearance and Symbols

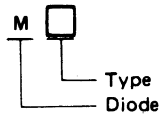

Transistor
C
B
E
C : Collector
B : Base
E : Emitter


FET
3
2
1
Drain
Gate
Source

	1	2	3
Except 2SK199	Drain	Source	Gate
2SK199	Gate	Drain	Source

2. Chip Diode

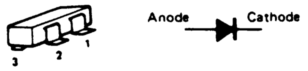
The diode number is indicated on the top surface of the chip diode using Two alphabet letters.


M
Type
Diode

Diode Number

Letter	Diode No.	Letter	Diode No.
MA	MA151A	MI	MA152K
MB	MA152A	MK	MA28W-B
MC	MA153	ML	MA28T-A
MD	MA28-A	MN	MA151WA
ME	MA28-B	MO	MA152WA
MF	MA28W-A	MT	MA151WK
MH	MA151K	MU	MA152WK

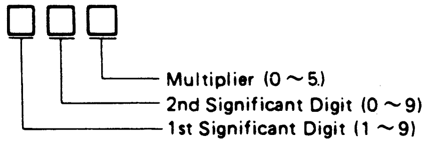
Appearance and Symbols


Anode
Cathode
3
2
1

	1	2	3
MA28/28W/28T	–	Anode	Cathode
MA151K/152K	–	Anode	Cathode
MA151A/152A	–	Cathode	Anode
MA151WK/MA152WK	Anode	Anode	Cathode
MA151WA/MA152WA	Cathode	Cathode	Anode
MA153	Cathode	Anode	Common

3. Chip Resistor

The resistor value is indicated on the bottom surface of the chip resistor using three digit numbers.


Multiplier (0 ~ 5)
2nd Significant Digit (0 ~ 9)
1st Significant Digit (1 ~ 9)

EXAMPLE:

330 ⟶ $33 \times 10^0 = 33$ ohms
561 ⟶ $56 \times 10^1 = 560$ ohms
123 ⟶ $12 \times 10^3 = 12$ kohms

Note: Zero ohm resistor (jumper chip) is colored red or green.

4. Chip Capacitor

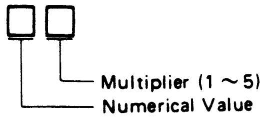
The capacitive value of replacement chip capacitors is indicated on the bottom surface. Original parts do not have value indication.

If the capacitive value is less than 100 pF, the value will be indicated by one or two digit number expressing the capacity directly in pF.

EXAMPLE:

0.5 ⟶ 0.5 pF   2.5 ⟶ 2.5 pF
75 ⟶ 0.75 pF   33 ⟶ 33 pF
1 ⟶ 1 pF   82 ⟶ 82 pF

If the capacitive value is 100 pF or greater, the value will be indicated by an alpha-numeric code. The letter precedes the number and expresses a numerical value to be multiplied by the number which follows.


Multiplier (1 ~ 5)
Numerical Value

Numerical Value

Letter	Value	Letter	Value
A	10	N	33
B	11	P	36
C	12	Q	39
D	13	R	43
E	15	S	47
F	16	T	51
G	18	U	56
H	20	V	62
J	22	W	68
K	24	X	75
L	27	Y	82
M	30	Z	91

* Letters I and O are not used

EXAMPLE:

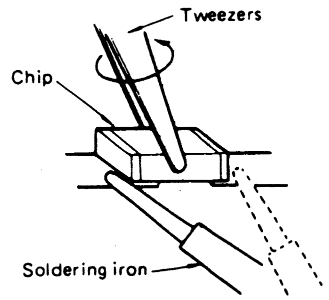
A1 ⟶ $10 \times 10^1 = 100$ pF
N2 ⟶ $33 \times 10^2 = 3300$ pF
S3 ⟶ $47 \times 10^3 = 47000$ pF

5. Precautions in replacing the chip component

1. Make sure that the unit is turned OFF when replacing the chip.
2. Use tweezers to prevent any damage to the chip surface.
3. Do not re-use the chips after removal.
4. Do not rub the electrode of chips.
5. Do not subject the chips to excessive stress.
6. It is recommended that a pencil-type soldering iron to be used.
7. The solder whose diameter is less than 0.5 mm is recommended.
8. Do not heat the chip beyond 3 seconds.
9. Maintain temperature control under 260°C (500°F) when soldering.

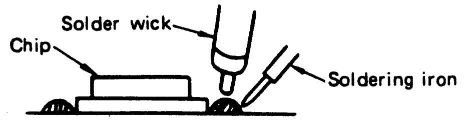
5-1 Removal (Transistor, Diode, Resistor and Capacitor)

1. Add the solder to both ends of the chip (three leads for chip transistor).
2. While attaching the soldering iron to both ends of the chip (three leads for chip transistor) as shown below, remove the chip by turning it with tweezers.
   Note Be careful not to damage other chips.

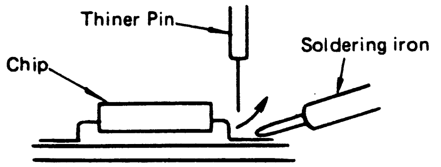

Tweezers
Chip
Soldering iron

5-2 Removal (IC)

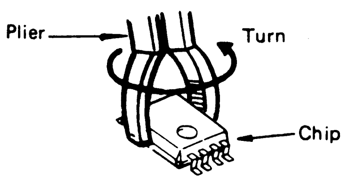
1. Add the solder wick and solder iron to each lead of the IC and remove solder.


Solder wick
Chip
Soldering iron

2. Add the solder iron to each lead of the IC and left each lead of the IC using thiner pin.

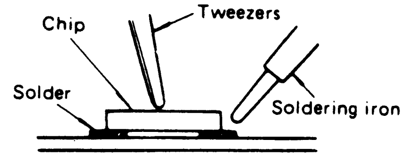

Thiner Pin
Soldering iron
Chip

3. Remove IC turning it with plier.

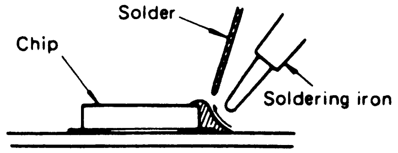

Plier
Turn
Chip

5-3 Mounting

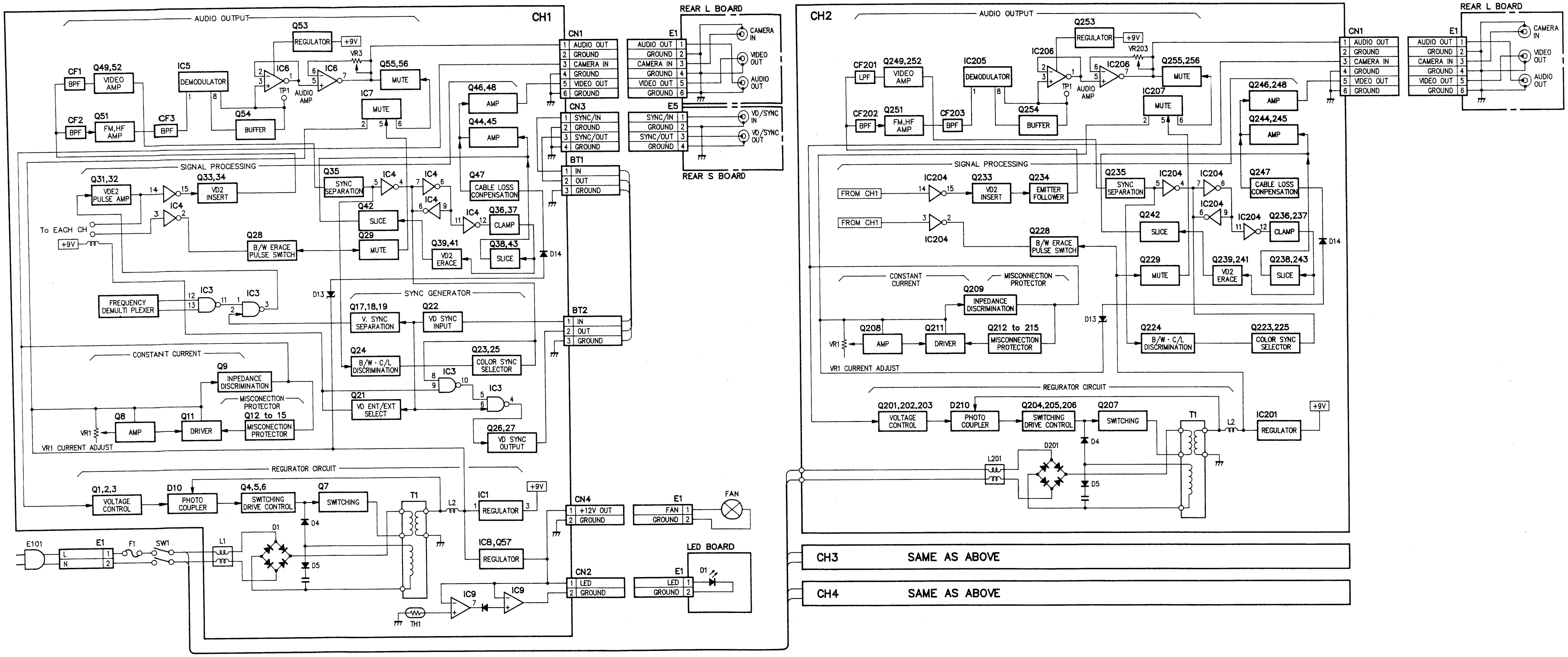
1. Place the solder thinly on the chip mounting foil.
2. Solder the chip temporarily while holding the chip with the tweezers.

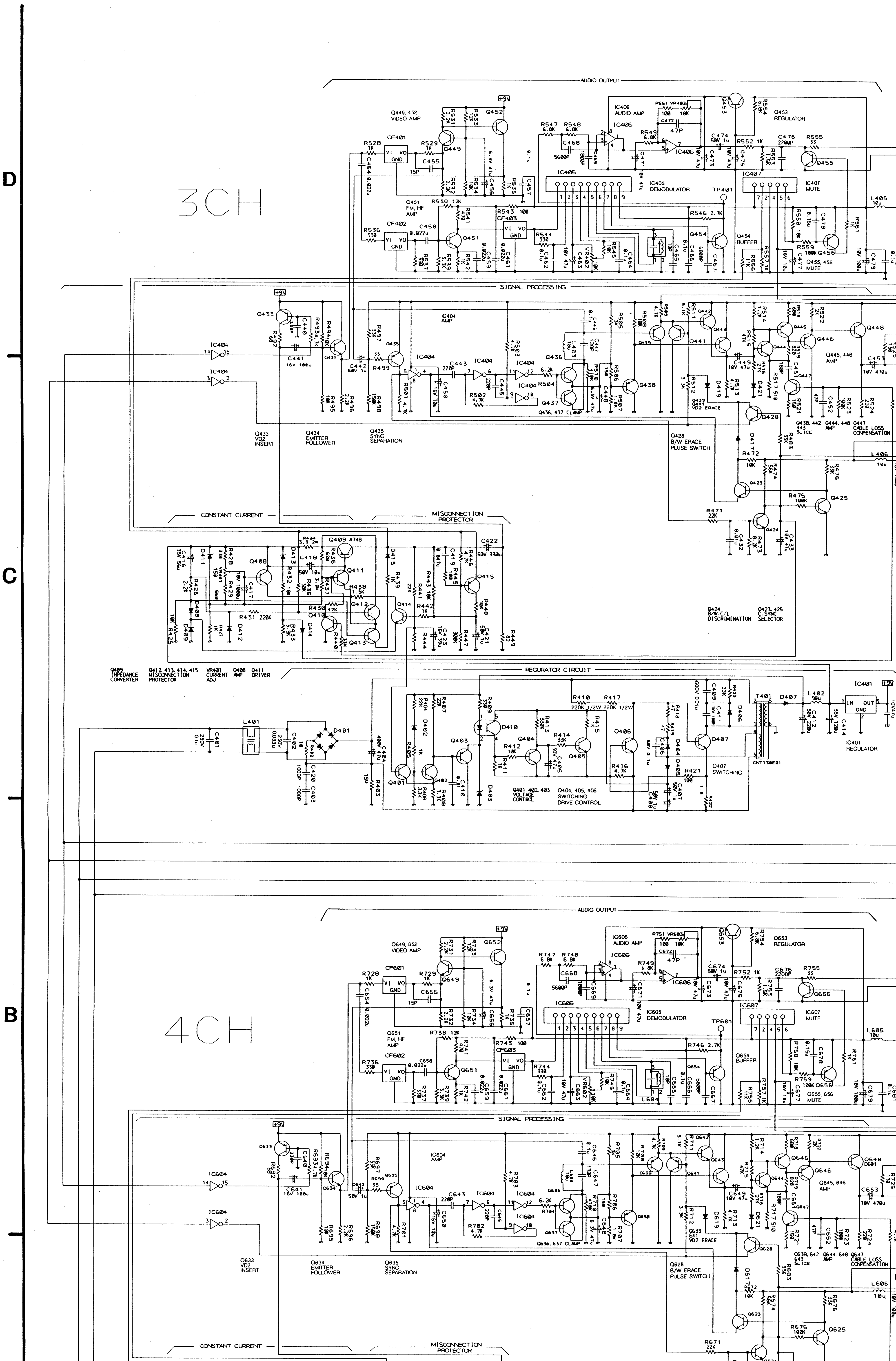

Chip
Tweezers
Solder
Soldering iron

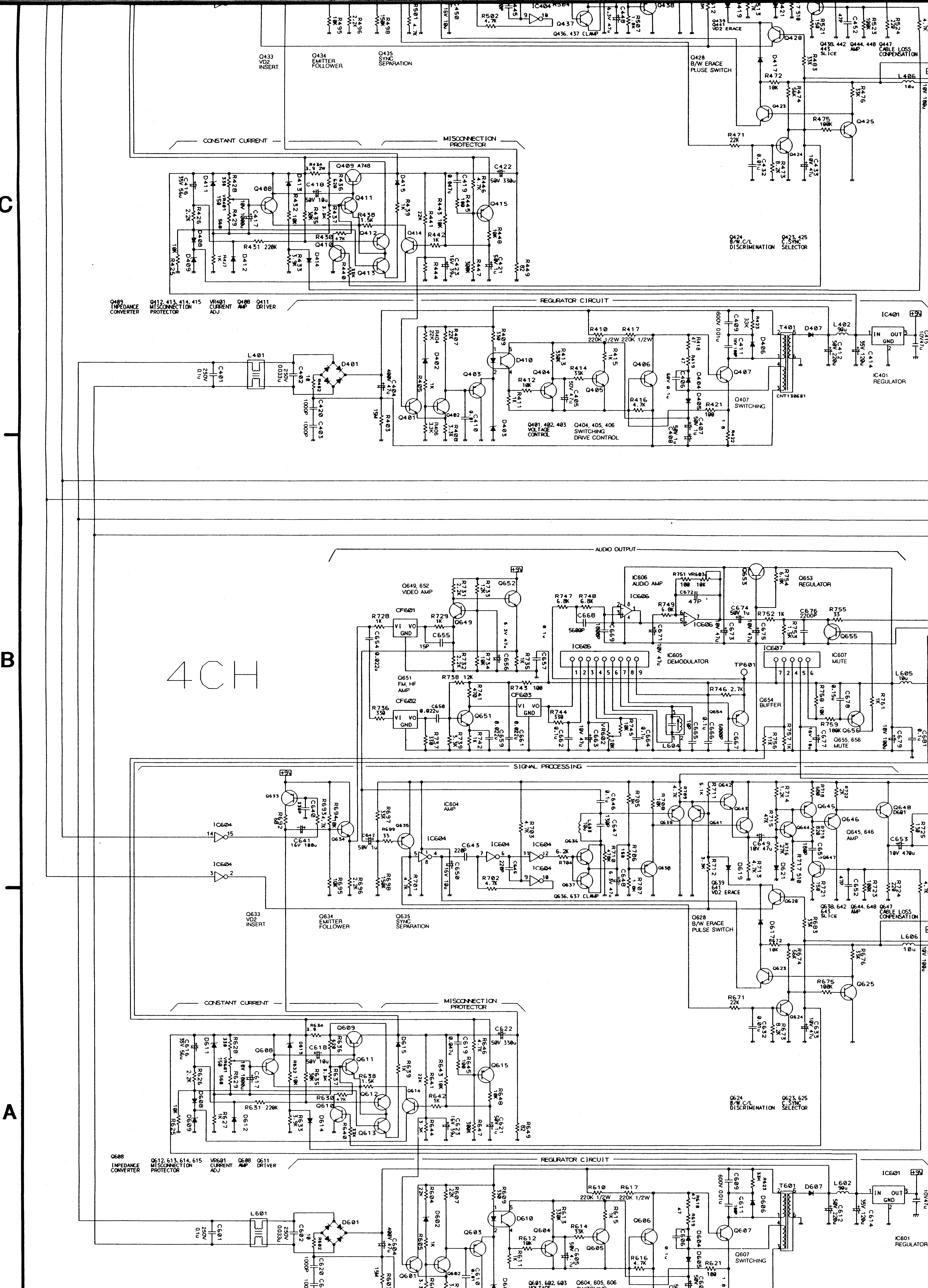
3. Solder both ends of chip (three leads for chip transistor).

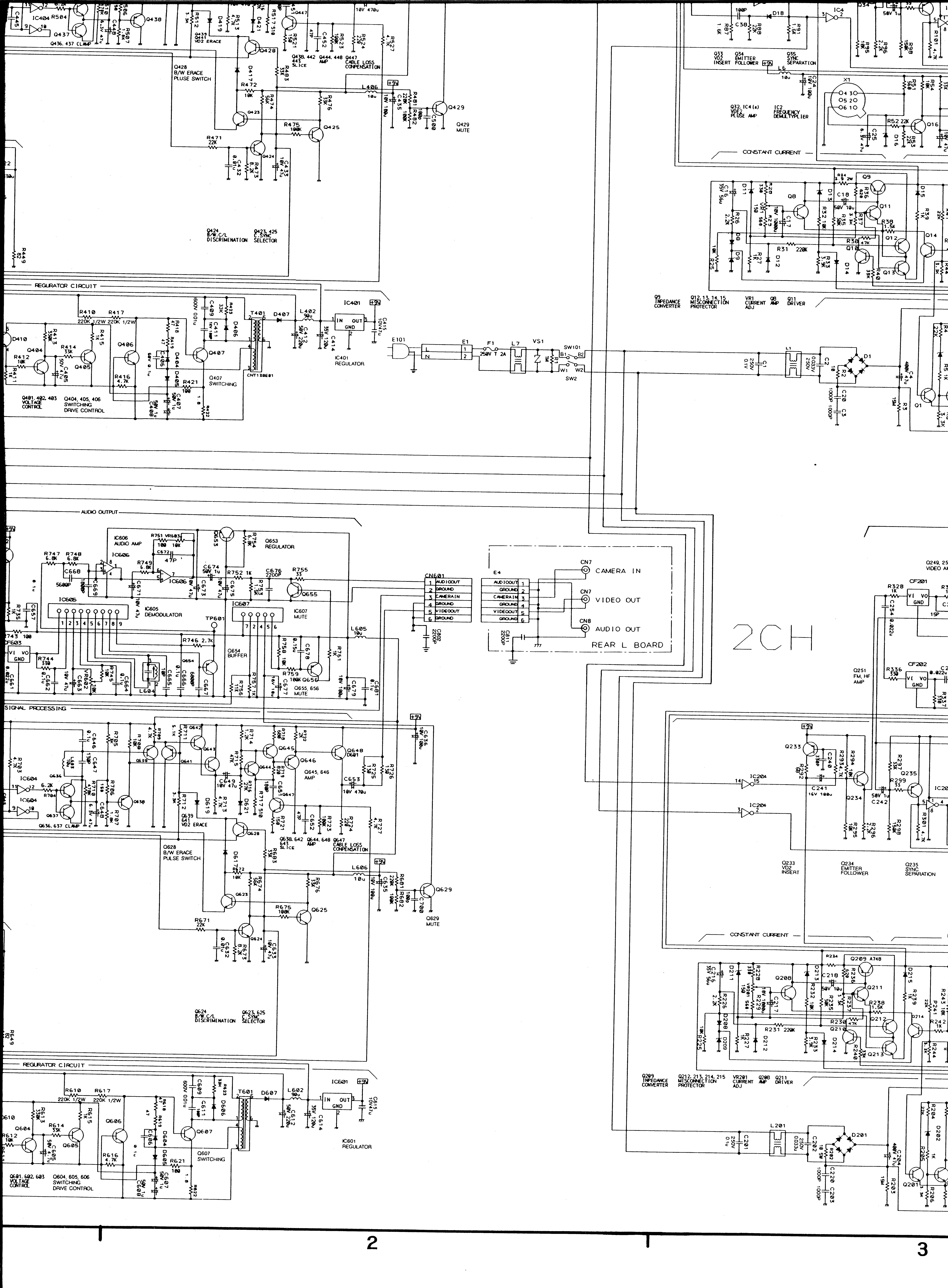

Solder
Chip
Soldering iron

BLOCK DIAGRAM

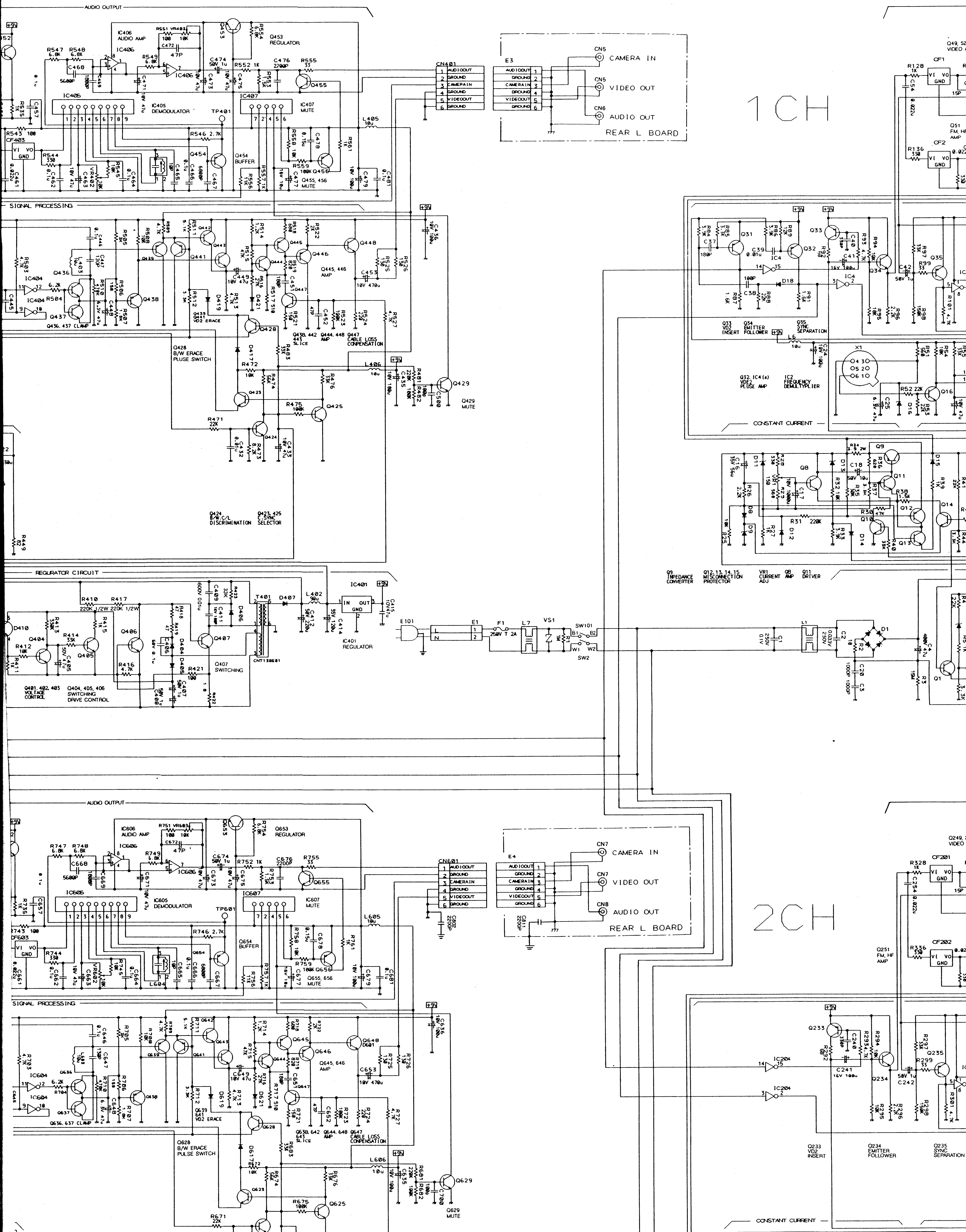

CH1
AUDIO OUTPUT
Q53
REGULATOR
+9V
VR3
IC6
IC6
TP1
AUDIO AMP
Q55,56
MUTE
CF1
BPF
Q49,52
VIDEO AMP
IC5
DEMODULATOR
Q54
BUFFER
IC7
MUTE
CF2
BPF
Q51
FM,HF AMP
CF3
BPF
Q46,48
AMP
Q44,45
AMP
SIGNAL PROCESSING
Q31,32
VDE2 PULSE AMP
Q33,34
VD2 INSERT
IC4
Q35
SYNC SEPARATION
IC4
Q47
CABLE LOSS CONPENSATION
Q42
SLICE
IC4
Q36,37
CLAMP
To EACH CH
+9V
Q28
B/W ERACE PULSE SWITCH
Q29
MUTE
Q39,41
VD2 ERACE
Q38,43
SLICE
D14
D13
FREQUENCY DEMULTI PLEXER
IC3
IC3
SYNC GENERATOR
Q17,18,19
V. SYNC SEPARATION
Q22
VD SYNC INPUT
CONSTANT CURRENT
Q9
INPEDANCE DISCRIMINATION
MISCONECTION PROTECTOR
Q12 to 15
MISCONECTION PROTECTOR
Q8
AMP
Q11
DRIVER
VR1
VR1 CURRENT ADJUST
Q24
B/W · C/L DISCRIMINATION
Q23,25
COLOR SYNC SELECTOR
IC3
IC3
Q21
VD ENT/EXT SELECT
Q26,27
VD SYNC OUTPUT
REGURATOR CIRCUIT
Q1,2,3
VOLTAGE CONTROL
D10
PHOTO COUPLER
Q4,5,6
SWITCHING DRIVE CONTROL
Q7
SWITCHING
T1
L2
IC1
REGULATOR
+9V
D1
D4
D5
IC8,Q57
REGULATOR
IC9
IC9
TH1
E101
E1
L
N
F1
SW1
L1
CN1
1 AUDIO OUT
2 GROUND
3 CAMERA IN
4 GROUND
5 VIDEO OUT
6 GROUND
CN3
1 SYNC/IN
2 GROUND
3 SYNC/OUT
4 GROUND
BT1
1 IN
2 OUT
3 GROUND
BT2
1 IN
2 OUT
3 GROUND
CN4
1 +12V OUT
2 GROUND
CN2
1 LED
2 GROUND
REAR L BOARD
E1
AUDIO OUT 1
GROUND 2
CAMERA IN 3
GROUND 4
VIDEO OUT 5
GROUND 6
CAMERA IN
VIDEO OUT
AUDIO OUT
E5
SYNC/IN 1
GROUND 2
SYNC/OUT 3
GROUND 4
VD/SYNC IN
VD/SYNC OUT
REAR S BOARD
E1
FAN 1
GROUND 2
FAN
LED BOARD
E1
LED 1
GROUND 2
D1
CH2
AUDIO OUTPUT
Q253
REGULATOR
+9V
VR203
IC206
IC206
TP1
AUDIO AMP
Q255,256
MUTE
CF201
LPF
Q249,252
VIDEO AMP
IC205
DEMODULATOR
IC207
MUTE
Q246,248
AMP
Q244,245
AMP
CF202
BPF
Q251
FM,HF AMP
CF203
BPF
Q254
BUFFER
SIGNAL PROCESSING
FROM CH1
IC204
Q233
VD2 INSERT
Q234
EMITTER FOLLOWER
Q235
SYNC SEPARATION
IC204
IC204
Q247
CABLE LOSS CONPENSATION
FROM CH1
IC204
Q242
SLICE
IC204
IC204
Q236,237
CLAMP
D14
Q228
B/W ERACE PULSE SWITCH
Q229
MUTE
Q239,241
VD2 ERACE
Q238,243
SLICE
CONSTANT CURRENT
MISCONNECTION PROTECTOR
Q209
INPEDANCE DISCRIMINATION
Q208
AMP
Q211
DRIVER
Q212 to 215
MISCONNECTION PROTECTOR
VR1
VR1 CURRENT ADJUST
D13
Q224
B/W · C/L DISCRIMINATION
Q223,225
COLOR SYNC SELECTOR
REGURATOR CIRCUIT
Q201,202,203
VOLTAGE CONTROL
D210
PHOTO COUPLER
Q204,205,206
SWITCHING DRIVE CONTROL
Q207
SWITCHING
T1
L2
IC201
REGULATOR
+9V
D4
D201
L201
D5
CN1
1 AUDIO OUT
2 GROUND
3 CAMERA IN
4 GROUND
5 VIDEO OUT
6 GROUND
REAR L BOARD
E1
AUDIO OUT 1
GROUND 2
CAMERA IN 3
GROUND 4
VIDEO OUT 5
GROUND 6
CAMERA IN
VIDEO OUT
AUDIO OUT
CH3 SAME AS ABOVE
CH4 SAME AS ABOVE


D
C
B
3CH
4CH
AUDIO OUTPUT
SIGNAL PROCESSING
CONSTANT CURRENT
MISCONNECTION PROTECTOR
REGULATOR CIRCUIT
Q449, 452 VIDEO AMP
CF401
CF402
CF403
Q451 FM, HF AMP
IC406 AUDIO AMP
IC405 DEMODULATOR
IC407 MUTE
Q453 REGULATOR
Q454 BUFFER
Q455, 456 MUTE
TP401
L405
IC404 AMP
Q433 VD2 INSERT
Q434 EMITTER FOLLOWER
Q435 SYNC SEPARATION
Q436, 437 CLAMP
Q439 Q441 VD2 ERACE
Q428 B/W ERACE PLUSE SWITCH
Q438, 442 443 SLICE
Q444, 448 AMP
Q445, 446 AMP
Q447 CABLE LOSS COMPENSATION
L406
Q424 B/W.C/L DISCRIMINATION
Q423, 425 C.SYNC SELECTOR
Q409 IMPEDANCE CONVERTER
Q412, 413, 414, 415 MISCONNECTION PROTECTOR
VR401 CURRENT ADJ
Q408 AMP
Q411 DRIVER
Q409 A748
L401
D401
T401
D407
L402
IC401 REGULATOR
IN OUT GND
+9V
Q401, 402, 403 VOLTAGE CONTROL
Q404, 405, 406 SWITCHING DRIVE CONTROL
Q407 SWITCHING
CNT130681
Q649, 652 VIDEO AMP
CF601
CF602
CF603
Q651 FM, HF AMP
IC606 AUDIO AMP
IC605 DEMODULATOR
IC607 MUTE
Q653 REGULATOR
Q654 BUFFER
Q655, 656 MUTE
TP601
L604
L605
IC604 AMP
Q633 VD2 INSERT
Q634 EMITTER FOLLOWER
Q635 SYNC SEPARATION
Q636, 637 CLAMP
Q639 VD2 ERACE
Q628 B/W ERACE PULSE SWITCH
Q638, 642 643 SLICE
Q644, 648 AMP
Q645, 646 AMP
Q647 CABLE LOSS COMPENSATION
L606

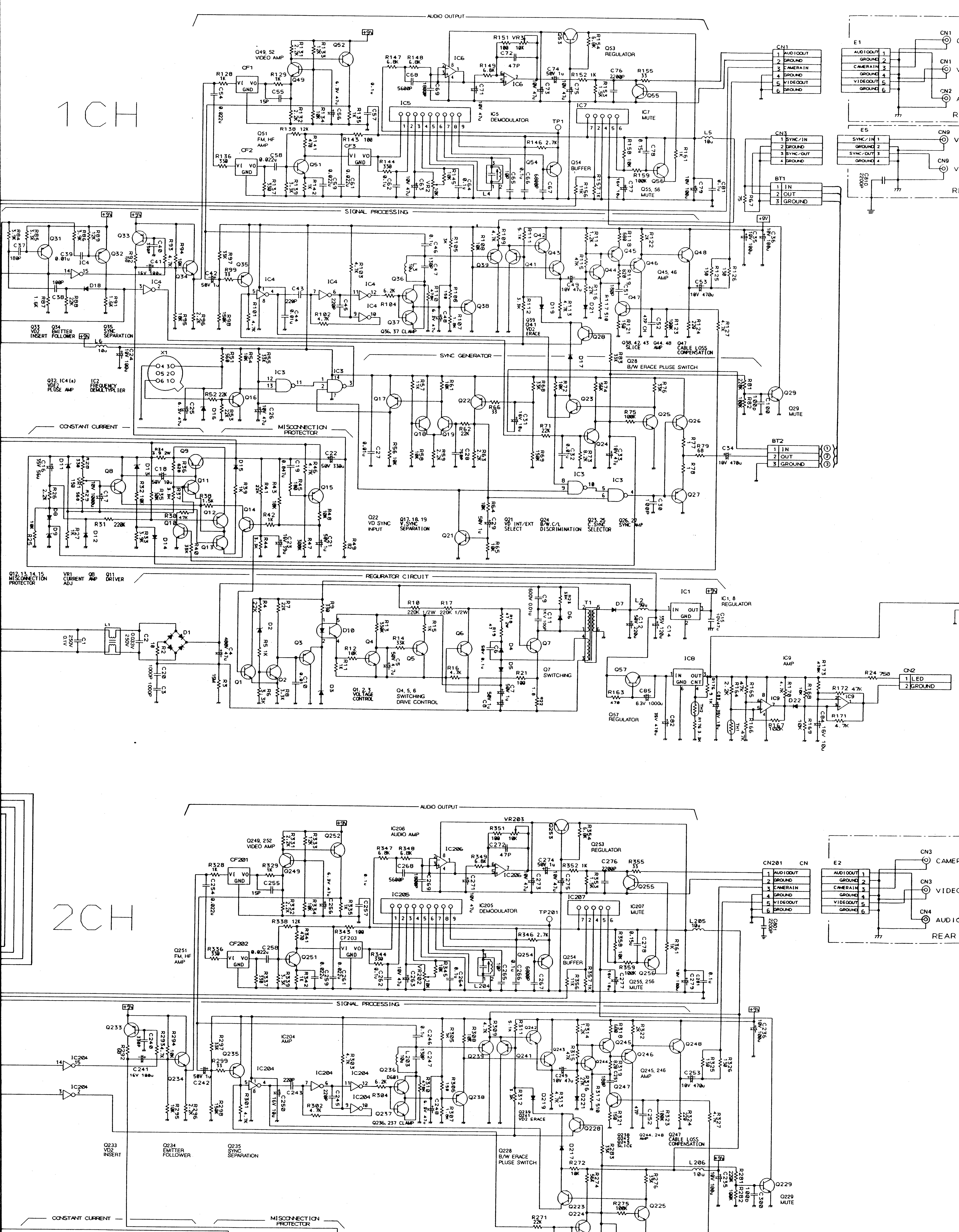
C
B
A
1
4CH
Q433 VD2 INSERT
Q434 EMITTER FOLLOWER
Q435 SYNC SEPARATION
Q436, 437 CLAMP
Q428 B/W ERACE PLUSE SWITCH
Q438, 442 443 SLICE
Q444, 448 AMP
Q447 CABLE LOSS CONPENSATION
Q424 B/W C/L DISCRIMINATION
Q423, 425 C.SYNC SELECTOR
CONSTANT CURRENT
MISCONNECTION PROTECTOR
Q409 A748
Q409 INPEDANCE CONVERTER
Q412, 413, 414, 415 MISCONNECTION PROTECTOR
VR401 CURRENT ADJ
Q408 AMP
Q411 DRIVER
REGURATOR CIRCUIT
IC401 REGULATOR
IN OUT GND
+5V
T401
CNT130681
Q401, 402, 403 VOLTAGE CONTROL
Q404, 405, 406 SWITCHING DRIVE CONTROL
Q407 SWITCHING
L401
D401
AUDIO OUTPUT
Q649, 652 VIDEO AMP
+9V
CF601
CF602
CF603
VI VO GND
Q651 FM, HF AMP
IC606 AUDIO AMP
IC605
IC605 DEMODULATOR
TP601
IC607
IC607 MUTE
Q653 REGULATOR
Q654 BUFFER
Q655, 656 MUTE
L604
L605
SIGNAL PROCESSING
IC604
IC604 AMP
Q636, 637 CLAMP
Q639 VD2 ERACE
Q633 VD2 INSERT
Q634 EMITTER FOLLOWER
Q635 SYNC SEPARATION
Q628 B/W ERACE PULSE SWITCH
Q638, 642 643 SLICE
Q644, 648 AMP
Q645, 646 AMP
Q647 CABLE LOSS CONPENSATION
L606
Q624 B/W C/L DISCRIMINATION
Q623, 625 C.SYNC SELECTOR
Q608 INPEDANCE CONVERTER
Q612, 613, 614, 615 MISCONNECTION PROTECTOR
VR601 CURRENT ADJ
Q608 AMP
Q611 DRIVER
IC601 REGULATOR
T601
L601
D601
Q601, 602, 603 VOLTAGE CONTROL
Q604, 605, 606 SWITCHING DRIVE CONTROL
Q607 SWITCHING

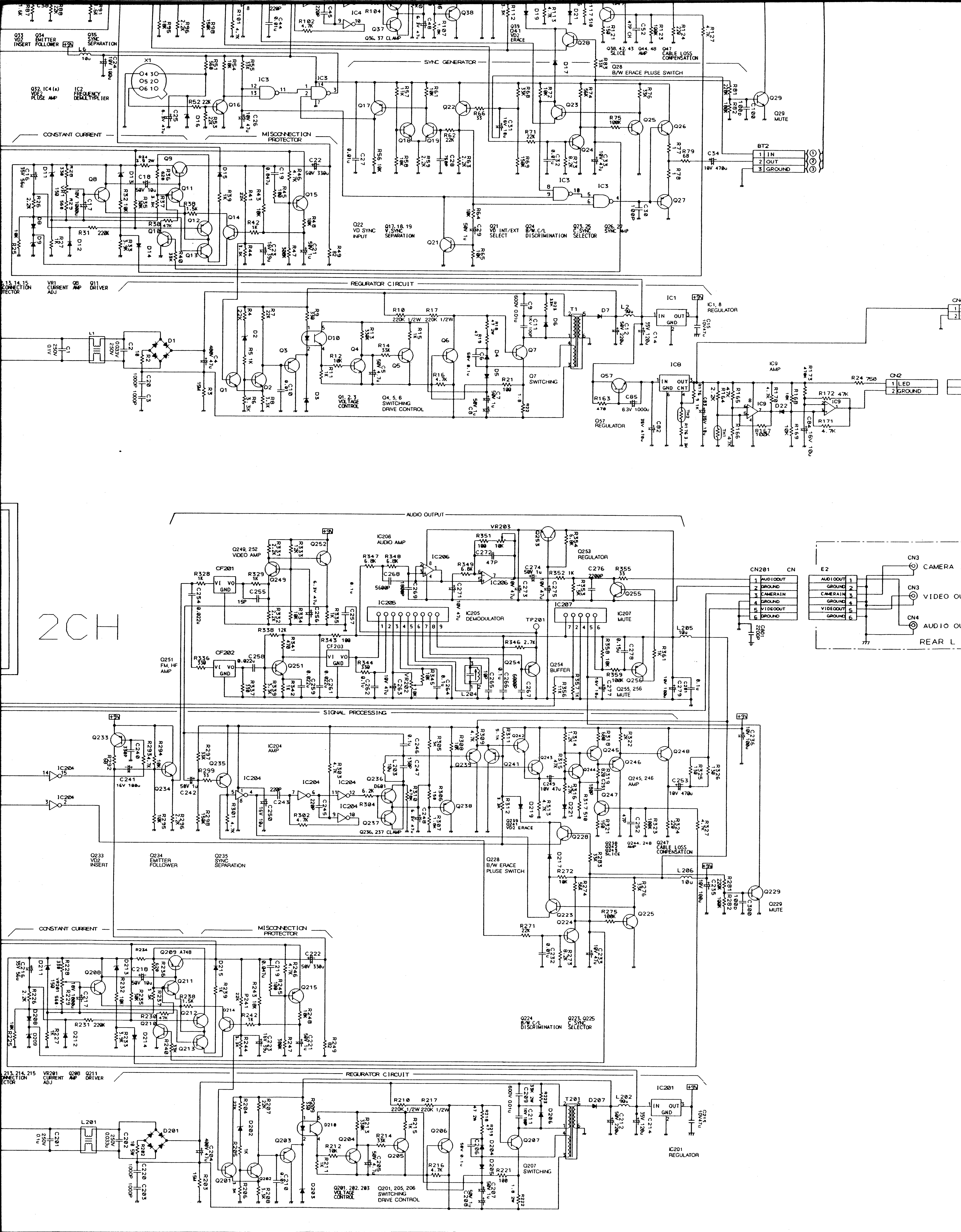

REGURATOR CIRCUIT
IC401 REGULATOR
Q407 SWITCHING
Q401, 402, 403 VOLTAGE CONTROL
Q404, 405, 406 SWITCHING DRIVE CONTROL
Q428 B/W ERACE PLUSE SWITCH
Q424 B/W.C/L DISCRIMINATION
Q423, 425 C.SYNC SELECTOR
Q429 MUTE
Q447 CABLE LOSS CONPENSATION
Q436, 437 CLAMP
E101
F1 250V T 2A
L7
VS1
SW101
SW2
Q33 VD2 INSERT
Q34 EMITTER FOLLOWER
Q35 SYNC SEPARATION
Q32, IC4(a) VDF2 PLUSE AMP
IC2 FREQUENCY DEMULTYPLIER
X1
CONSTANT CURRENT
Q9 INPEDANCE CONVERTER
Q12, 13, 14, 15 MISCONNECTION PROTECTOR
VR1 CURRENT ADJ
Q8 AMP
Q11 DRIVER
AUDIO OUTPUT
IC606 AUDIO AMP
Q653 REGULATOR
IC605 DEMODULATOR
IC607 MUTE
TP601
Q654 BUFFER
Q655, 656 MUTE
CN601
AUDIOOUT
GROUND
CAMERAIN
VIDEOOUT
E4
CN7 CAMERA IN
CN7 VIDEO OUT
CN8 AUDIO OUT
REAR L BOARD
2CH
SIGNAL PROCESSING
Q636, 637 CLAMP
Q639 641 VD2 ERACE
Q628 B/W ERACE PULSE SWITCH
Q638, 642 643 SLICE
Q644, 648 AMP
Q645, 646 AMP
Q647 CABLE LOSS CONPENSATION
Q629 MUTE
Q624 B/W.C/L DISCRIMINATION
Q623, 625 C.SYNC SELECTOR
REGURATOR CIRCUIT
IC601 REGULATOR
Q607 SWITCHING
Q601, 602, 603 VOLTAGE CONTROL
Q604, 605, 606 SWITCHING DRIVE CONTROL
Q249, 25 VIDEO A
Q251 FM, HF AMP
CF201
CF202
Q233 VD2 INSERT
Q234 EMITTER FOLLOWER
Q235 SYNC SEPARATION
CONSTANT CURRENT
Q209 INPEDANCE CONVERTER
Q212, 213, 214, 215 MISCONNECTION PROTECTOR
VR201 CURRENT ADJ
Q208 AMP
Q211 DRIVER
2
3

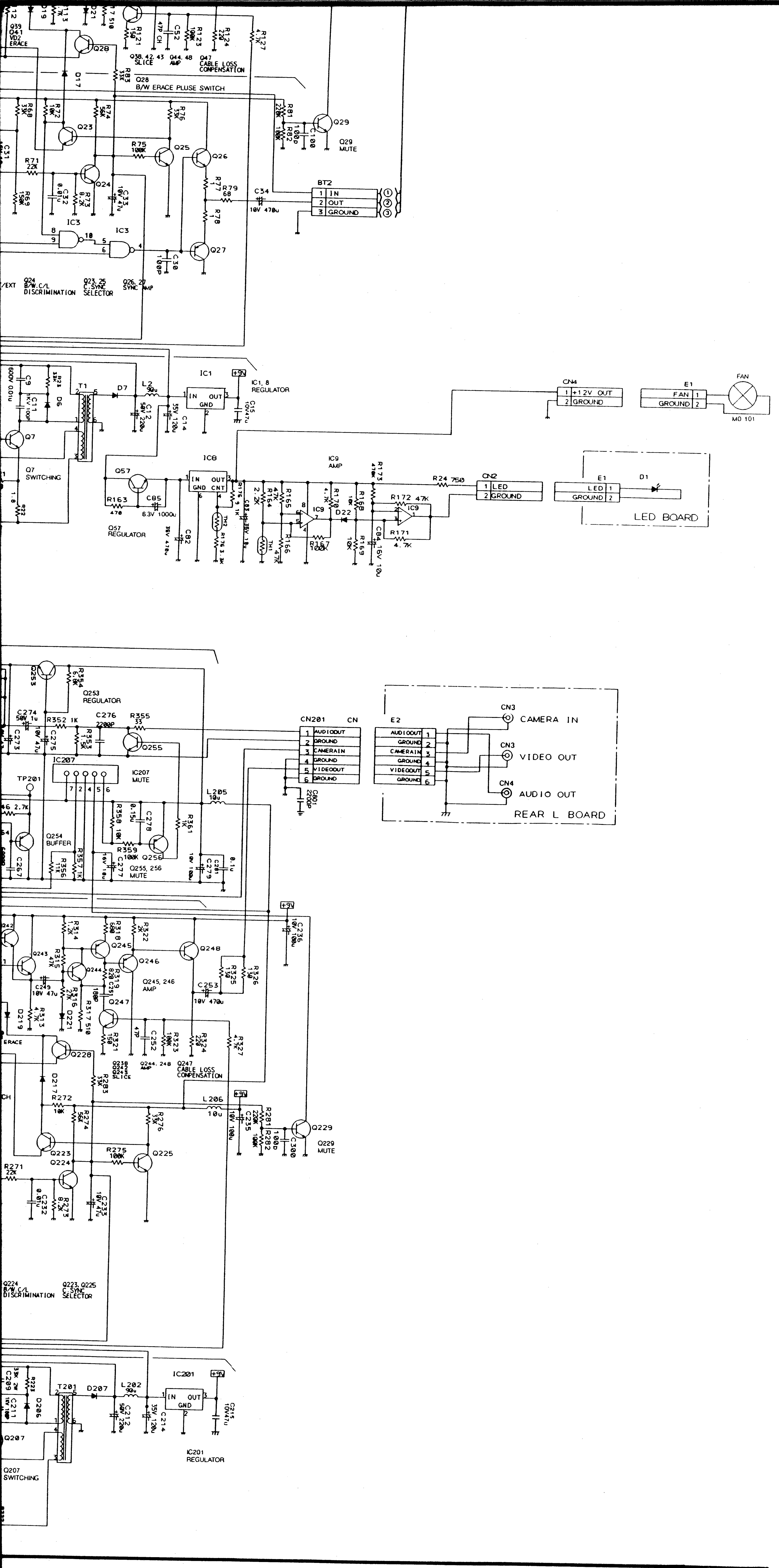
SCHEMATIC DIAGRAM


AUDIO OUTPUT
IC406 AUDIO AMP
Q453 REGULATOR
IC405 DEMODULATOR
TP401
IC407 MUTE
Q454 BUFFER
Q455, 456 MUTE
CN401
AUDIOOUT
GROUND
CAMERAIN
GROUND
VIDEOOUT
GROUND
E3
CN5 CAMERA IN
CN5 VIDEO OUT
CN6 AUDIO OUT
REAR L BOARD
1CH
SIGNAL PROCESSING
IC404
Q436, 437 CLAMP
Q438, 442 443 SLICE
Q444, 448 AMP
Q445, 446 AMP
Q447 CABLE LOSS COMPENSATION
Q428 B/W ERACE PLUSE SWITCH
Q429 MUTE
Q424 B/W.C/L DISCRIMINATION
Q423, 425 C.SYNC SELECTOR
Q33 VD2 INSERT
Q34 EMITTER FOLLOWER
Q35 SYNC SEPARATION
Q32, IC4(a) VDF2 PLUSE AMP
IC2 FREQUENCY DEMULTYPLIER
CONSTANT CURRENT
Q9 INPEDANCE CONVERTER
Q12, 13, 14, 15 MISCONNECTION PROTECTOR
VR1 CURRENT ADJ
Q8 AMP
Q11 DRIVER
REGURATOR CIRCUIT
IC401 REGULATOR
Q401, 402, 403 VOLTAGE CONTROL
Q404, 405, 406 SWITCHING DRIVE CONTROL
Q407 SWITCHING
T401
E101
F1 250V T 2A
VS1
SW101
SW2
IC606 AUDIO AMP
Q653 REGULATOR
IC605 DEMODULATOR
TP601
IC607 MUTE
Q654 BUFFER
Q655, 656 MUTE
CN601
E4
CN7 CAMERA IN
CN7 VIDEO OUT
CN8 AUDIO OUT
REAR L BOARD
2CH
Q636, 637 CLAMP
Q628 B/W ERACE PULSE SWITCH
Q638, 642 643 SLICE
Q644, 648 AMP
Q645, 646 AMP
Q647 CABLE LOSS COMPENSATION
Q629 MUTE
Q233 VD2 INSERT
Q234 EMITTER FOLLOWER
Q235 SYNC SEPARATION
Q251 FM, HF AMP
+9V

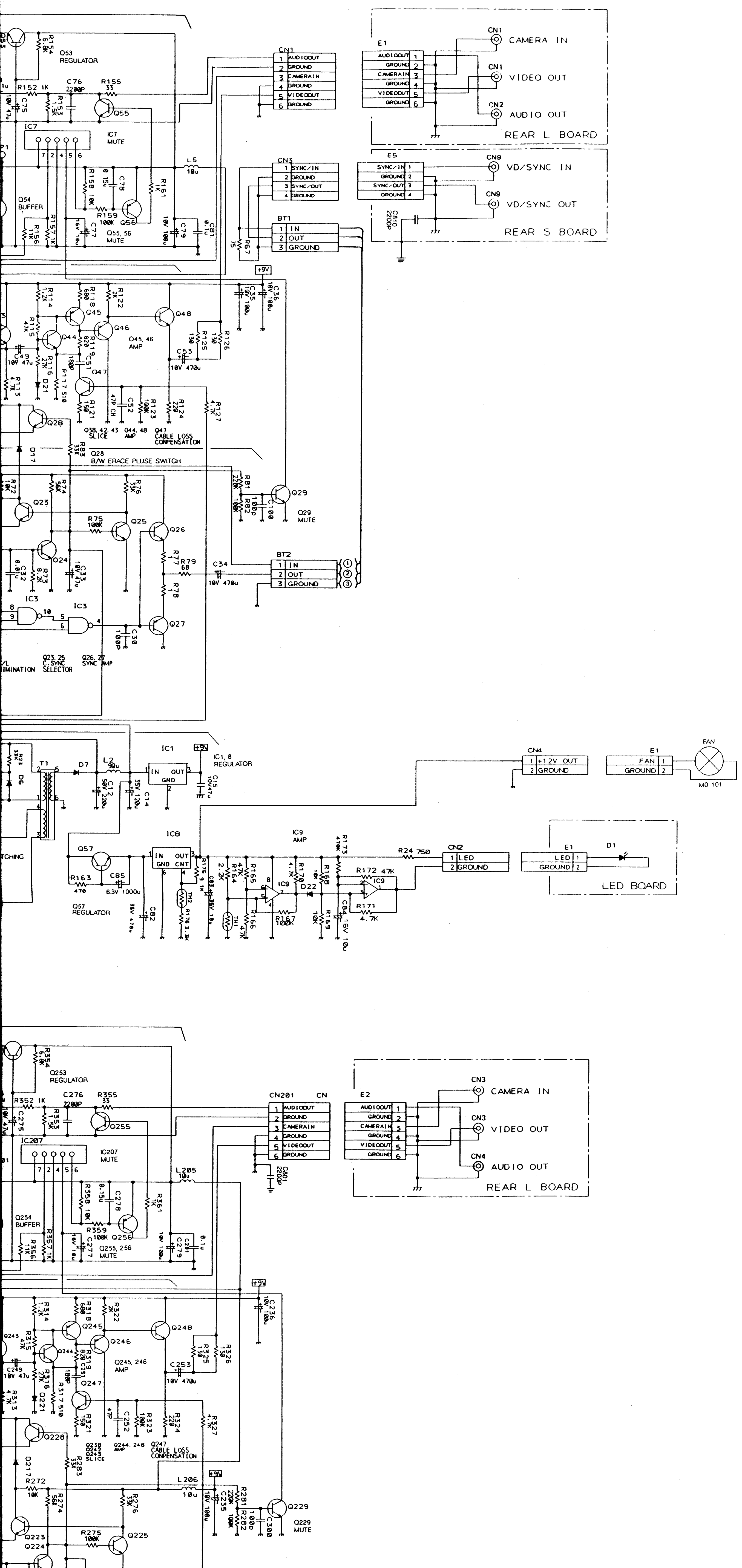
IAGRAM


1CH
AUDIO OUTPUT
Q49, 52 VIDEO AMP
Q51 FM, HF AMP
IC5 DEMODULATOR
IC7 MUTE
Q53 REGULATOR
Q54 BUFFER
Q55, 56 MUTE
TP1
CN1
1 AUDIOOUT
2 GROUND
3 CAMERAIN
4 GROUND
5 VIDEOOUT
6 GROUND
CN2
1 SYNC/IN
2 GROUND
3 SYNC/OUT
4 GROUND
BT1
1 IN
2 OUT
3 GROUND
E1
E5
SIGNAL PROCESSING
Q33 VD2 INSERT
Q34 EMITTER FOLLOWER
Q35 SYNC SEPARATION
Q32, IC4(a) VDF2 PLUSE AMP
IC2 FREQUENCY DEMULTYPLIER
Q36, 37 CLAMP
Q39 Q41 VD2 ERACE
Q38, 42, 43 SLICE
Q44, 48 AMP
Q45, 46 AMP
Q47 CABLE LOSS COMPENSATION
Q28 B/W ERACE PLUSE SWITCH
SYNC GENERATOR
Q29 MUTE
BT2
1 IN
2 OUT
3 GROUND
CONSTANT CURRENT
MISCONNECTION PROTECTOR
Q22 VD SYNC INPUT
Q17, 18, 19 V.SYNC SEPARATION
Q21 VD INT/EXT SELECT
Q24 B/W.C/L DISCRIMINATION
Q23, 25 C.SYNC SELECTOR
Q26, 27 SYNC AMP
Q12, 13, 14, 15 MISCONNECTION PROTECTOR
VR1 CURRENT ADJ
Q8 AMP
Q11 DRIVER
REGULATOR CIRCUIT
IC1
IC1, 8 REGULATOR
Q1, 2, 3 VOLTAGE CONTROL
Q4, 5, 6 SWITCHING DRIVE CONTROL
Q7 SWITCHING
Q57 REGULATOR
IC8
IC9 AMP
CN2
1 LED
2 GROUND
2CH
AUDIO OUTPUT
Q249, 252 VIDEO AMP
IC206 AUDIO AMP
Q251 FM, HF AMP
IC205 DEMODULATOR
IC207 MUTE
Q253 REGULATOR
Q254 BUFFER
Q255, 256 MUTE
TP201
CN201
1 AUDIOOUT
2 GROUND
3 CAMERAIN
4 GROUND
5 VIDEOOUT
6 GROUND
E2
CN3 CAMER
CN3 VIDEO
CN4 AUDIO
REAR
SIGNAL PROCESSING
IC204 AMP
Q233 VD2 INSERT
Q234 EMITTER FOLLOWER
Q235 SYNC SEPARATION
Q236, 237 CLAMP
Q239 Q241 VD2 ERACE
Q228 B/W ERACE PLUSE SWITCH
Q238 Q242 Q243 SLICE
Q244, 248 AMP
Q245, 246 AMP
Q247 CABLE LOSS COMPENSATION
Q229 MUTE
CONSTANT CURRENT
MISCONNECTION PROTECTOR

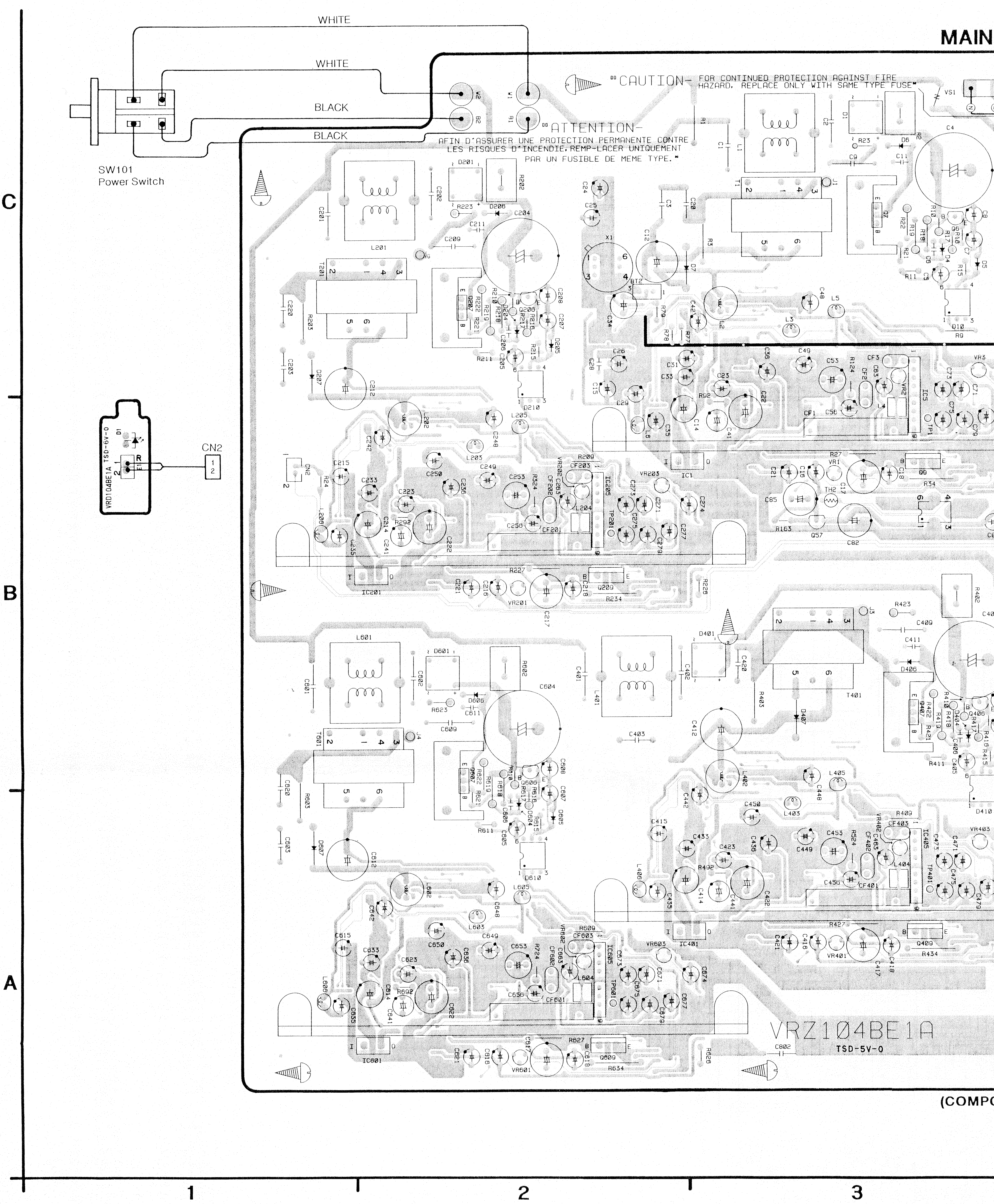

Q33 VD2 INSERT
Q34 EMITTER FOLLOWER
Q35 SYNC SEPARATION
Q32, IC4(a) VD2 PLUSE AMP
IC2 FREQUENCY DEMULTYPLIER
Q36, 37 CLAMP
Q39 Q41 VD2 ERACE
Q38, 42, 43 SLICE
Q44, 48 AMP
Q47 CABLE LOSS COMPENSATION
Q28 B/W ERACE PLUSE SWITCH
SYNC GENERATOR
Q29 MUTE
BT2
IN
OUT
GROUND
CONSTANT CURRENT
MISCONNECTION PROTECTOR
Q22 VD SYNC INPUT
Q17, 18, 19 V.SYNC SEPARATION
Q21 VD INT/EXT SELECT
Q24 B/W.C/L DISCRIMINATION
Q23, 25 C.SYNC SELECTOR
Q26, 27 SYNC AMP
VR1 CURRENT ADJ
Q8 AMP
Q11 DRIVER
REGURATOR CIRCUIT
IC1, 8 REGULATOR
Q1, 2, 3 VOLTAGE CONTROL
Q4, 5, 6 SWITCHING DRIVE CONTROL
Q7 SWITCHING
Q57 REGULATOR
IC9 AMP
CN2
LED
GROUND
2CH
AUDIO OUTPUT
Q249, 252 VIDEO AMP
IC206 AUDIO AMP
Q253 REGULATOR
IC205 DEMODULATOR
IC207 MUTE
TP201
Q251 FM, HF AMP
Q254 BUFFER
Q255, 256 MUTE
CN201
AUDIOOUT
GROUND
CAMERAIN
GROUND
VIDEOOUT
GROUND
E2
CN3 CAMERA
CN3 VIDEO OU
CN4 AUDIO OU
REAR L
SIGNAL PROCESSING
IC204 AMP
Q236, 237 CLAMP
Q239 Q241 VD2 ERACE
Q238 Q242 Q243 SLICE
Q244, 248 AMP
Q245, 246 AMP
Q247 CABLE LOSS COMPENSATION
Q228 B/W ERACE PLUSE SWITCH
Q229 MUTE
Q233 VD2 INSERT
Q234 EMITTER FOLLOWER
Q235 SYNC SEPARATION
Q224 B/W C/L DISCRIMINATION
Q223, Q225 C.SYNC SELECTOR
VR201 CURRENT ADJ
Q208 AMP
Q211 DRIVER
Q209 A748
IC201 REGULATOR
Q201, 202, 203 VOLTAGE CONTROL
Q201, 205, 206 SWITCHING DRIVE CONTROL
Q207 SWITCHING
3
4


Q28
Q38, 42, 43 SLICE
Q44, 48 AMP
Q47 CABLE LOSS COMPENSATION
Q28 B/W ERACE PLUSE SWITCH
Q23
Q24
Q25
Q26
Q27
Q29
Q29 MUTE
R75 100K
R71 22K
R79 68
C34 10V 470u
BT2
1 IN
2 OUT
3 GROUND
IC3
Q24 B/W.C/L DISCRIMINATION
Q23, 25 C.SYNC SELECTOR
Q26, 27 SYNC AMP
IC1
IN OUT GND
IC1, 8 REGULATOR
+9V
T1
D7
L2
Q7
Q7 SWITCHING
CN4
1 +12V OUT
2 GROUND
E1
FAN
GROUND
FAN
MO 101
IC8
IN OUT GND CNT
Q57
Q57 REGULATOR
R163 470
C85 6.3V 1000u
IC9 AMP
IC9
D22
R172 47K
R171 4.7K
R24 750
CN2
1 LED
2 GROUND
E1
LED
GROUND
D1
LED BOARD
Q253
Q253 REGULATOR
C276 2200P
R355 33
R352 1K
Q255
IC207
IC207 MUTE
TP201
L205 10u
Q254 BUFFER
Q256
R359 100K
Q255, 256 MUTE
CN201
CN
1 AUDIOOUT
2 GROUND
3 CAMERAIN
4 GROUND
5 VIDEOOUT
6 GROUND
E2
AUDIOOUT
GROUND
CAMERAIN
GROUND
VIDEOOUT
GROUND
CN3
CAMERA IN
CN3
VIDEO OUT
CN4
AUDIO OUT
REAR L BOARD
+9V
Q243
Q244
Q245
Q246
Q247
Q248
Q245, 246 AMP
C253
10V 470u
ERACE
Q228
Q238 Q242 SLICE
Q244, 248 AMP
Q247 CABLE LOSS COMPENSATION
D217
R272 10K
L206 10u
+9V
Q229
Q229 MUTE
Q223
Q224
R275 100K
Q225
R271 22K
Q224 B/W.C/L DISCRIMINATION
Q223, Q225 C.SYNC SELECTOR
IC201
+9V
T201
D207
L202
IN OUT GND
IC201 REGULATOR
Q207
Q207 SWITCHING

Q9	C3	Q635	B1
Q10	C3	Q636	B1
Q11	C3	Q637	B1
Q12	C3	Q638	B2
Q13	C3	Q639	B2
Q14	C3	Q641	B2
Q15	C3	Q642	B2
Q16	C3	Q643	B2
Q17	C3	Q644	B2
Q18	C3	Q645	B2
Q19	C3	Q646	B2
Q21	C3	Q647	B2
Q22	C3	Q648	B2
Q23	C4	Q649	B1
Q24	C4	Q651	B1
Q25	C4	Q652	B1
Q26	C4	Q653	B2
Q27	C4	Q654	B2
Q28	C4	Q655	B2
Q29	C4	Q656	B2
Q31	D4		
Q32	D4	D1	C3
Q33	D4	D2	C3
Q34	D4	D3	C3
Q35	D4	D4	C3
Q36	C3	D5	C3
Q37	C3	D6	C4
Q38	C3	D7	C4
Q39	D3	D8	C3
Q41	D3	D9	C3
Q42	D3	D10	C3
Q43	D3	D11	C3
Q44	D4	D12	C3
Q45	D4	D13	C3
Q46	D4	D14	C3
Q47	C4	D15	C3
Q48	D4	D16	C3
Q49	D3	D17	C4
Q51	D3	D18	C3
Q52	D3	D19	C3
Q53	D4	D21	C4
Q54	D4	D22	C4
Q55	D4	D201	A3
Q56	D4	D202	A3
Q201	A3	D203	A3
Q202	A3	D204	A3
Q203	A3	D205	A3
Q204	A3	D206	A4
Q205	A3	D207	A4
Q206	A3	D209	A3
Q207	A3	D210	A3
Q208	A3	D211	A3
Q209	A3	D212	A3
Q210	A3	D213	A3
Q211	A3	D214	A3
Q212	A3	D215	A3
Q213	A3	D217	A4
Q214	A3	D219	B4
Q215	A3	D221	B4
Q223	A4	D401	C1
Q224	A4	D402	C1
Q225	A4	D403	C1
Q228	A4	D404	C2
Q229	A4	D405	C2
Q233	B3	D406	C2
Q234	B3	D407	C2
Q235	B3	D408	C1
Q236	B3	D409	C1
Q237	B3	D410	C1
Q238	B3	D411	C1
Q239	B3	D412	C1
Q241	B3	D413	C1
Q242	B3	D414	C1
Q243	B4	D415	C1
Q244	B4	D417	C2
Q245	B4	D419	C2
Q246	B4	D421	C2
Q247	B4	D601	C1
Q249	B3	D602	A1
Q251	B3	D603	A1
Q252	B3	D604	C2
Q253	B3	D605	C2
Q254	B3	D606	C2
Q255	B4	D607	C2
Q256	B4	D608	A1
Q401	C1	D609	A1
Q402	C1	D610	C1
Q403	C1	D611	A1
Q404	C1	D612	A1
Q405	C1	D613	A1
Q406	C2	D614	A1
Q407	C2	D615	A1
Q408	C1	D617	A2
Q409	C1	D619	A2
Q410	C1	D621	A2
Q411	C1		
Q412	C1		
Q413	C1		
Q414	C1		
Q415	C1		
Q423	C2		
Q424	C2		
Q425	C2		
Q428	C2		
Q429	C2		
Q433	D1		
Q434	D1		
Q435	D1		
Q436	C1		
Q437	C1		
Q438	C2		
Q439	D2		
Q441	D2		
Q442	D2		
Q443	D2		
Q444	D2		


Q53 REGULATOR
R152 1K
C76 2200P
R155 33
Q55
IC7 MUTE
L5 10u
Q54 BUFFER
R159 100K
Q56
Q55, 56 MUTE
CN1
AUDIOOUT
GROUND
CAMERAIN
GROUND
VIDEOOUT
GROUND
E1
CN1 CAMERA IN
CN1 VIDEO OUT
CN2 AUDIO OUT
REAR L BOARD
CN3
SYNC/IN
GROUND
SYNC/OUT
GROUND
E5
CN9 VD/SYNC IN
CN9 VD/SYNC OUT
C810 2200P
REAR S BOARD
BT1
IN
OUT
GROUND
+9V
Q45
Q44
Q46
Q48
Q45, 46 AMP
Q47
Q28
Q38, 42, 43 SLICE
Q44, 48 AMP
Q47 CABLE LOSS COMPENSATION
Q28 B/W ERACE PLUSE SWITCH
Q29
Q29 MUTE
Q23
Q25
Q26
Q24
Q27
BT2
IC3
Q23, 25 C.SYNC SELECTOR
Q26, 27 SYNC AMP
IMINATION
T1
D7
L2
D6
IC1
IC1, 8 REGULATOR
TCHING
Q57
IC8
Q57 REGULATOR
IC9 AMP
IC9
D22
R24 750
R172 47K
R171 4.7K
CN2
LED
GROUND
CN4
+12V OUT
GROUND
E1
FAN
GROUND
FAN
MO 101
E1
D1
LED BOARD
Q253 REGULATOR
R352 1K
C276 2200P
R355 33
Q255
IC207
IC207 MUTE
CN201
CN
L205 10u
Q254 BUFFER
R359 100K
Q256
Q255, 256 MUTE
C801 2200P
E2
CN3 CAMERA IN
CN3 VIDEO OUT
CN4 AUDIO OUT
REAR L BOARD
Q245
Q246
Q248
Q244
Q243
Q245, 246 AMP
Q247
Q228
Q238 Q242 Q243 SLICE
Q244, 248 AMP
Q247 CABLE LOSS COMPENSATION
L206 10u
+9V
R272 10K
Q229
Q229 MUTE
Q223
Q224
R275 100K
Q225

IC1	C4	Q445	D2
IC3	C3, C4	Q446	D2
IC4	C3	Q447	C2
IC5	D3	Q448	D2
IC6	D3	Q449	D1
IC7	D4	Q451	D1
IC8	C4	Q452	D1
IC9	C4	Q453	D2
		Q454	D2
IC201	A4	Q455	D2
IC204	B3	Q456	D2
IC205	B3	Q601	A1
IC206	B3	Q602	A1
IC207	B4	Q603	A1
IC401	C2	Q604	A1
IC404	C1	Q605	A1
IC405	D1	Q606	A2
IC406	D1, D2	Q607	A2
IC407	D2	Q608	A1
IC601	A2	Q609	A1
IC604	B1	Q610	A1
IC605	B1	Q611	A1
IC606	B1, B2	Q612	A1
IC607	D2	Q613	A1
		Q614	A1
Q1	C3	Q615	A1
Q2	C3	Q623	A2
Q3	C3	Q624	A2
Q4	C3	Q625	A2
Q5	C3	Q628	A2
Q6	C3	Q629	A2
Q7	C3	Q633	B1
Q8	C3	Q634	B1
Q9	C3	Q635	B1
Q10	C3	Q636	B1
Q11	C3	Q637	B1
Q12	C3	Q638	B2
Q13	C3	Q639	B2
Q14	C3	Q641	B2
Q15	C3	Q642	B2
Q16	C3	Q643	B2
Q17	C3	Q644	B2
Q18	C3	Q645	B2
Q19	C3	Q646	B2
Q21	C3	Q647	B2
Q22	C3	Q648	B2
Q23	C4	Q649	B1
Q24	C4	Q651	B1
Q25	C4	Q652	B1
Q26	C4	Q653	B2
Q27	C4	Q654	B2
Q28	C4	Q655	B2
Q29	C4	Q656	B2
Q31	D4		
Q32	D4	D1	C3
Q33	D4	D2	C3
Q34	D4	D3	C3
Q35	D4	D4	C3
Q36	C3	D5	C3
Q37	C3	D6	C4
Q38	C3	D7	C4
Q39	D3	D8	C3
Q41	D3	D9	C3
Q42	D3	D10	C3
Q43	D3	D11	C3
Q44	D4	D12	C3
Q45	D4	D13	C3
Q46	D4	D14	C3
Q47	C4	D15	C3
Q48	D4	D16	C3
Q49	D3	D17	C4
Q51	D3	D18	C3
Q52	D3	D19	C3
Q53	D4	D21	C4
Q54	D4	D22	C4
Q55	D4	D201	A3
Q56	D4	D202	A3
Q201	A3	D203	A3
Q202	A3	D204	A3
Q203	A3	D205	A3
Q204	A3	D206	A4
Q205	A3	D207	A4
Q206	A3	D209	A3
Q207	A3	D210	A3
Q208	A3	D211	A3
Q209	A3	D212	A3
Q210	A3	D213	A3
Q211	A3	D214	A3
Q212	A3	D215	A3
Q213	A3	D217	A4
Q214	A3	D219	B4
Q215	A3	D221	B4
Q223	A4	D401	C1
Q224	A4	D402	C1
Q225	A4	D403	C1
Q228	A4	D404	C2
Q229	A4	D405	C2
Q233	B3	D406	C2
Q234	B3	D407	C2
Q235	B3	D408	C1
Q236	B3	D409	C1
Q237	B3	D410	C1
Q238	B3	D411	C1
Q239	B3	D412	C1
Q241	B3	D413	C1
Q242	B3	D414	C1
Q243	B4	D415	C1
Q244	B4	D417	C2
Q245	B4	D419	C2
Q246	B4	D421	C2
Q247	B4	D601	C1
Q249	B3	D602	A1
Q251	B3	D603	A1
Q252	B3	D604	C2
Q253	B3	D605	C2
Q254	B3	D606	C2
Q255	B4	D607	C2
Q256	B4	D608	A1
Q401	C1	D609	A1
Q402	C1	D610	C1


MAIN
WHITE
WHITE
BLACK
BLACK
SW101
Power Switch
"CAUTION- FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSE"
"ATTENTION-
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMP-LACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE."
CN2
VRD104BE1A TSD-6V-0
VRZ104BE1A
TSD-5V-0
(COMPO
C
B
A
1
2
3

Component Side

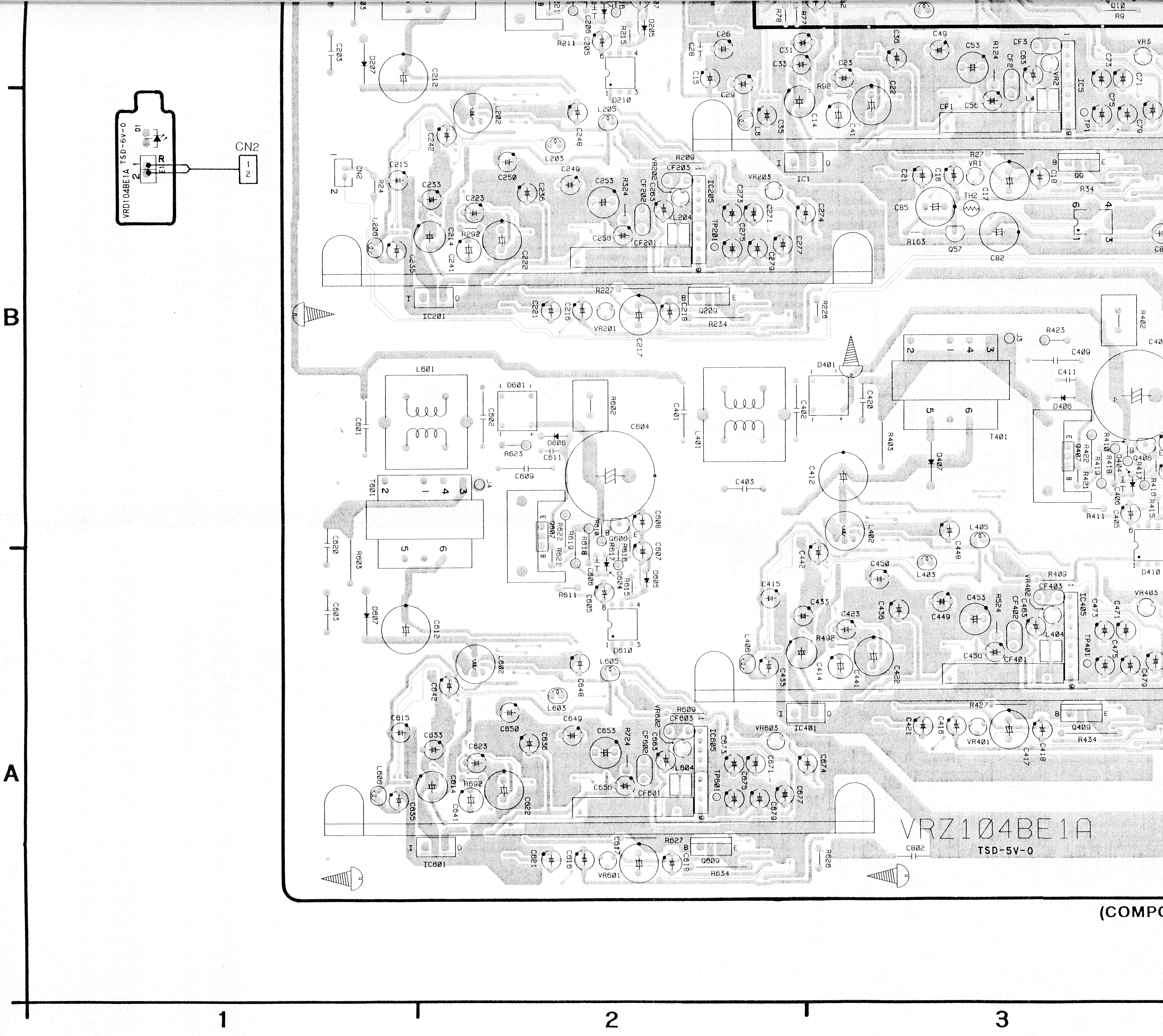
IC1	B2	D1	C3
IC8	B3	D4	C3
IC5	C3	D5	C3
IC201	B1	D6	C3
IC205	B2	D7	C2
IC401	A2	D10	C3

Voltages

	E	C	B
Q 1,201,401,601	1.0	18.5	1.5
2,202,402,602	1.0	14.4	1.6
3,203,403,603	15.0	0	14.4
4,204,404,604	0.2	0.1	0.4
5,205,405,605	0.2	6.3	0.1

	E	C	B
28,228,428,628	8.9	8.7	0.7
29,229,429,629	0	1.2	0.1
31	9.0	0	9.0
32	9.0	0.1	9.0
33,233,433,633	9.0	0	8.9

	IC1,201 401,601	IC3	IC4,204 404,604	IC5,2 405,6
Pin 1	18.5	4.5	8.9	1.9
2	0	8.9	8.9	1.9
3	9.0	4.5	0.1	0.8
4		8.2	8.2	0.4



Component Side

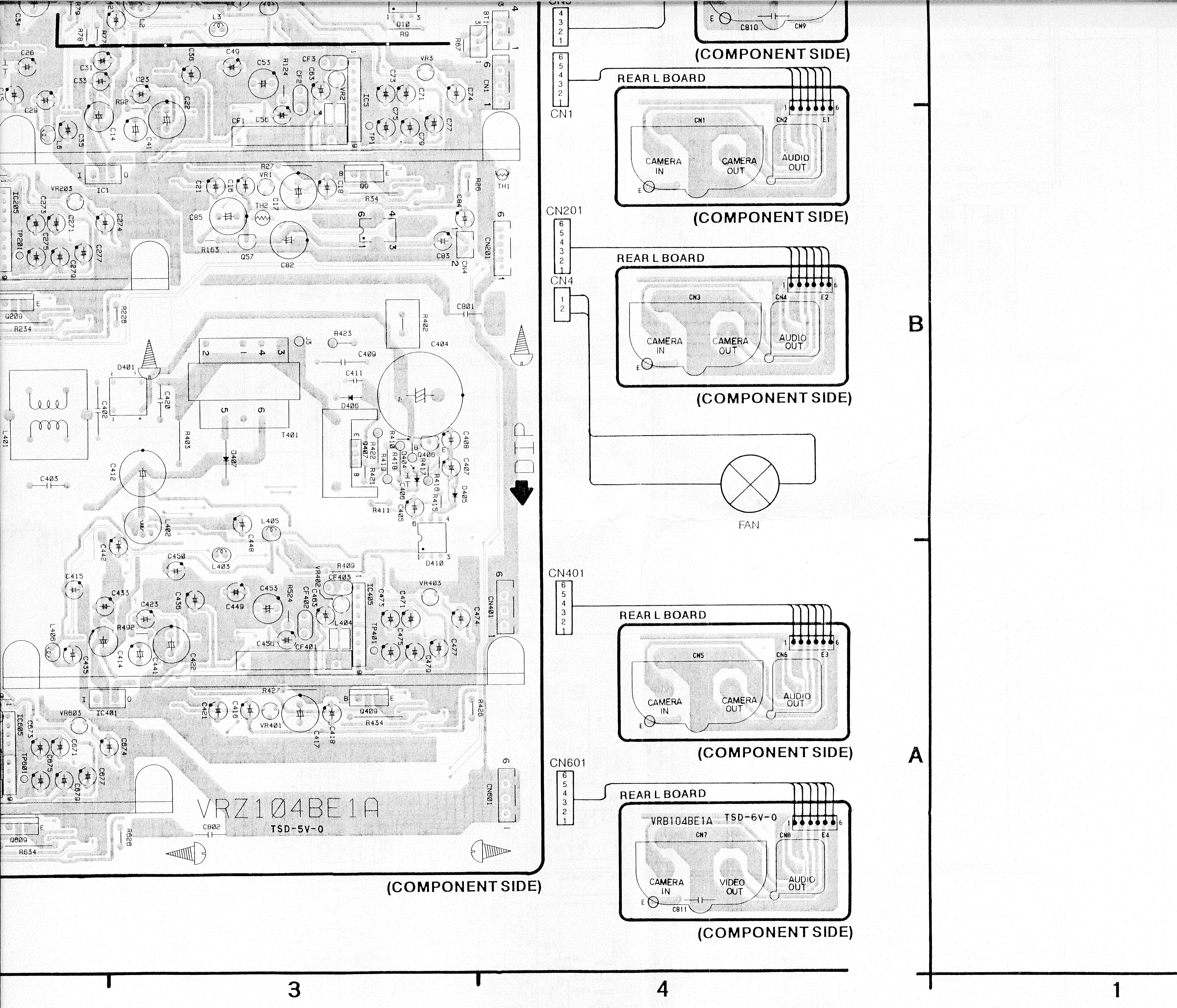
IC1	B2
IC8	B3
IC5	C3
IC201	B1
IC205	B2
IC401	A2
IC405	A3
IC601	A1
IC605	A2
Q6	C3
Q7	C3
Q9	B3
Q206	C2
Q207	C2
Q209	B2
Q406	B3
Q407	B3
Q409	A3
Q606	B2
Q607	B2
Q609	A2

D1	C3
D4	C3
D5	C3
D6	C3
D7	C2
D10	C3
D201	C1
D204	C2
D205	C2
D206	C2
D207	C1
D210	C2
D401	B3
D404	B3
D405	B3
D406	B3
D407	B2
D410	B3
D601	B2
D604	A2
D605	A2
D606	B2
D607	A1
D610	A2

Voltages

	E	C	B
Q 1,201,401,601	1.0	18.5	1.5
2,202,402,602	1.0	14.4	1.6
3,203,403,603	15.0	0	14.4
4,204,404,604	0.2	0.1	0.4
5,205,405,605	0.2	6.3	0.1
6,206,406,606	0	0.1	0.2
7,207,407,607	1.0	220.0	0.1
8,208,408,608	14.7	18.5	15.3
9,209,409,609	15.8	11.8	15.1
10,213,410,610	0	15.3	0.2
11,211,411,611	14.7	15.1	15.3
12,212,412,612	15.8	14.7	15.4
13,213,413,613	0.4	14.7	0.6
14,214,414,614	4.4	4.4	5.1
15,215,415,615	17.5	6.8	17.4
16	0	4.5	0.3
17	8.9	8.9	8.2
18	7.9	8.9	4.2
19	7.9	8.2	8.5
21	0	8.9	0
22	8.9	8.8	8.3
23,223,423,623	8.2	8.2	8.1
24224,424,624	0	0.2	0.2
25,225,425,625	0	8.1	0.2
26	7.9	8.9	8.2
27	7.9	0	8.2
28,228,428,628	8.9	8.7	0.7
29,229,429,629	0	1.2	0.1
31	9.0	0	9.0
32	9.0	0.1	9.0
33,233,433,633	9.0	0	8.9
34,234,434,634	3.8	9.0	4.5
35,235,435,635	8.9	0.8	8.9
36,236,436,636	3.5	3.8	0.2
37,237,437,637	3.8	3.5	0.2
38,238,438,638	3.9	0	3.3
39,239,439,639	4.4	0	3.8
41,241,441,641	4.4	0	8.9
42242,442,642	3.8	9.0	4.4
43243,443,643	3.8	9.0	3.9
44,244,444,644	2.1	6.8	2.7
45,245,445,645	7.4	3.9	6.8
46,246,446,646	4.6	0	3.9
47,247,447,647	0	0.8	0.1
48,248,448,648	3.9	9.0	4.6
49,249,449,649	3.3	6.3	4.0
51,251,451,651	1.1	8.2	1.9
52,252,452,652	5.6	9.0	6.3
53,253,453,653	8.2	8.9	8.8
54,254,454,654	5.3	0	4.7
55,255,455,655	0	0	0.2
56,256,456,656	8.9	0	8.8
57	17.5	18.5	18.2

	IC1,201 401,601	IC3	IC4,204 404,604	IC5,2 405,6
Pin 1	18.5	4.5	8.9	1.9
2	0	8.9	8.9	1.9
3	9.0	4.5	0.1	0.8
4		8.2	8.2	0.4
5		0.8	0.8	0
6		8.8	8.7	3.9
7		0	0.3	3.9
8		8.2	0	4.7
9		8.9	8.9	8.9
10		0.8	0.1	
11		4.5	8.7	
12		8.9	0.2	
13		4.5	0	
14		8.9	0	
15			8.9	
16			0	


CN1
REAR L BOARD
CAMERA IN
CAMERA OUT
AUDIO OUT
(COMPONENT SIDE)
CN201
CN4
REAR L BOARD
CAMERA IN
CAMERA OUT
AUDIO OUT
(COMPONENT SIDE)
FAN
CN401
REAR L BOARD
CAMERA IN
CAMERA OUT
AUDIO OUT
(COMPONENT SIDE)
CN601
REAR L BOARD
VRB104BE1A TSD-6V-0
CAMERA IN
VIDEO OUT
AUDIO OUT
C811
(COMPONENT SIDE)
DIP
VRZ104BE1A
TSD-5V-0
(COMPONENT SIDE)
B
A
3
4
1

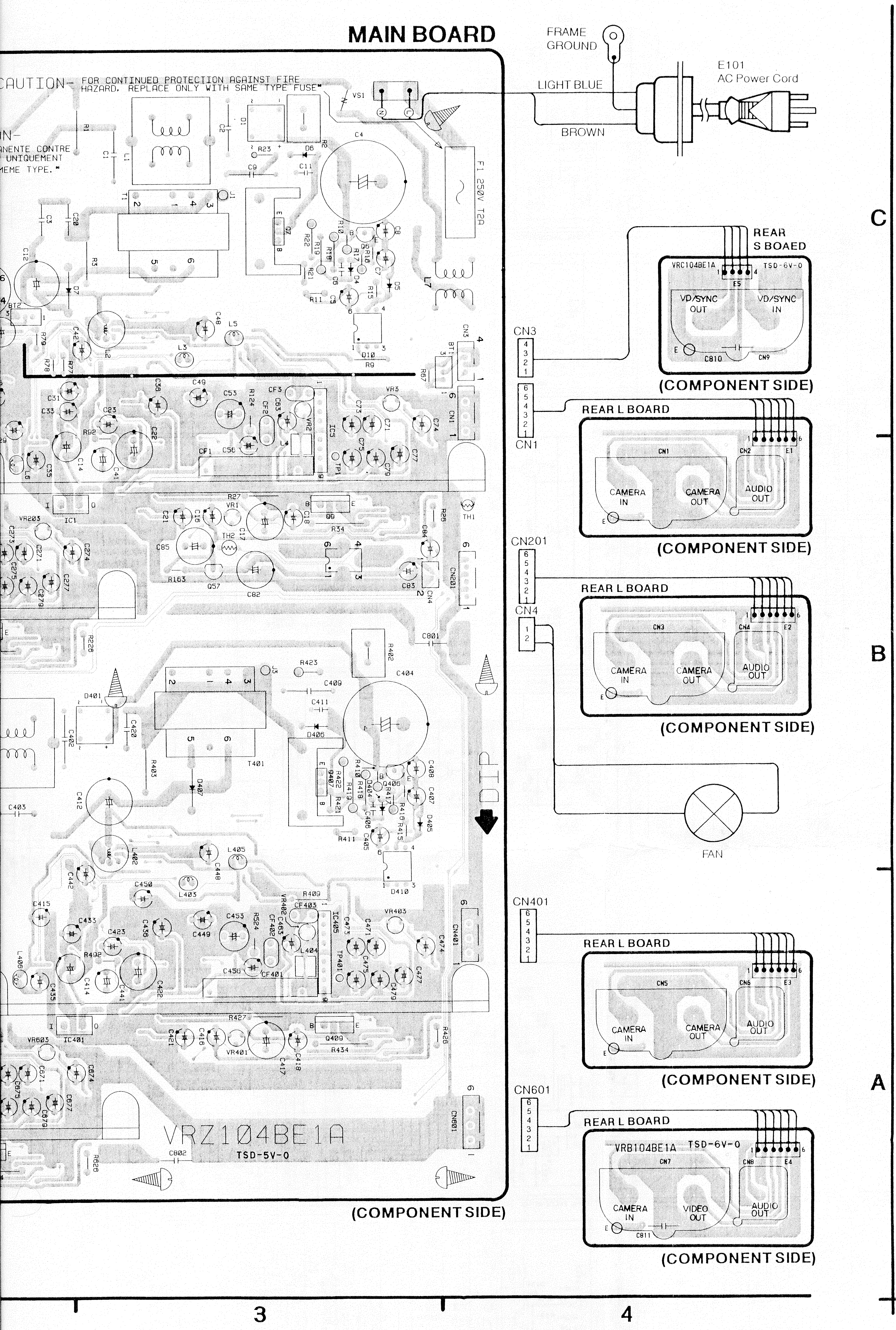
	E	C	B
28,228,428,628	8.9	8.7	0.7
29,229,429,629	0	1.2	0.1
31	9.0	0	9.0
32	9.0	0.1	9.0
33,233,433,633	9.0	0	8.9
34,234,434,634	3.8	9.0	4.5
35,235,435,635	8.9	0.8	8.9
36,236,436,636	3.5	3.8	0.2
37,237,437,637	3.8	3.5	0.2
38,238,438,638	3.9	0	3.3
39,239,439,639	4.4	0	3.8
41,241,441,641	4.4	0	8.9
42242,442,642	3.8	9.0	4.4
43243,443,643	3.8	9.0	3.9
44,244,444,644	2.1	6.8	2.7
45,245,445,645	7.4	3.9	6.8
46,246,446,646	4.6	0	3.9
47,247,447,647	0	0.8	0.1
48,248,448,648	3.9	9.0	4.6
49,249,449,649	3.3	6.3	4.0
51,251,451,651	1.1	8.2	1.9
52,252,452,652	5.6	9.0	6.3
53,253,453,653	8.2	8.9	8.8
54,254,454,654	5.3	0	4.7
55,255,455,655	0	0	0.2
56,256,456,656	8.9	0	8.8
57	17.5	18.5	18.2

	IC1,201 401,601	IC3	IC4,204 404,604	IC5,205 405,605	IC6,206 406,606	IC7,207 407,607	IC8	IC9
Pin 1	18.5	4.5	8.9	1.9	5.3	0	17.5	0.2
2	0	8.9	8.9	1.9	5.3	1.5	0	1.2
3	9.0	4.5	0.1	0.8	5.3	0	12.9	0.7
4		8.2	8.2	0.4	0	0	4.9	0
5		0.8	0.8	0	5.3	1.2	0	0.5
6		8.8	8.7	3.9	5.3	8.9	0	5.9
7		0	0.3	3.9	5.3	8.9		0.1
8		8.2	0	4.7	8.2	0		12.9
9		8.9	8.9	8.9				
10		0.8	0.1					
11		4.5	8.7					
12		8.9	0.2					
13		4.5	0					
14		8.9	0					
15			8.9					
16			0					

Pattern Side

IC3	C2
IC4	C2
IC6	C2
IC7	B2
IC9	B1
IC204	B3
IC206	B2
IC207	B2
IC404	A2
IC406	A2
IC407	A2
IC604	A3
IC606	A2
IC607	A2
Q1	C2
Q2	C2
Q3	C2
Q4	C2
Q5	C2
Q8	B2
Q10	B2
Q11	B2
Q12	B2
Q13	B2
Q14	B2
Q15	B2
Q16	C2
Q17	C2
Q18	C2
Q19	C2
Q21	C2
Q22	C2
Q23	B2
Q24	B2
Q25	C2
Q26	C2
Q27	C2
Q28	C2
Q29	C2
Q31	C2
Q32	C2
Q33	B2
Q34	B2
Q35	C2
Q36	C2
Q37	C2
Q38	C2
Q39	C2
Q41	B2
Q42	C2
Q43	C2
Q44	B2
Q45	B2
Q46	B2
Q47	B2
Q48	B2
Q49	B2
Q51	C2
Q52	B2
Q53	B2
Q54	B2
Q55	B2
Q56	B2
Q201	B3
Q202	B3

CONDUCTOR VIEW


MAIN BOARD
CAUTION- FOR CONTINUED PROTECTION AGAINST FIRE HAZARD. REPLACE ONLY WITH SAME TYPE FUSE"
IN-
NENTE CONTRE
UNIQUEMENT
MEME TYPE."
F1 250V T2A
FRAME GROUND
LIGHT BLUE
BROWN
E101
AC Power Cord
REAR S BOAED
VRC104BE1A
TSD-6V-0
VD/SYNC OUT
VD/SYNC IN
C810
CN9
(COMPONENT SIDE)
CN3
CN1
REAR L BOARD
CAMERA IN
CAMERA OUT
AUDIO OUT
(COMPONENT SIDE)
CN201
CN4
REAR L BOARD
CAMERA IN
CAMERA OUT
AUDIO OUT
(COMPONENT SIDE)
FAN
CN401
REAR L BOARD
CAMERA IN
CAMERA OUT
AUDIO OUT
(COMPONENT SIDE)
CN601
REAR L BOARD
VRB104BE1A
TSD-6V-0
CAMERA IN
VIDEO OUT
AUDIO OUT
C811
(COMPONENT SIDE)
VRZ104BE1A
TSD-5V-0
DIP
(COMPONENT SIDE)
C
B
A
3
4
1

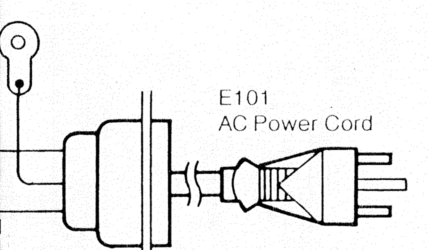
	E	C	B
228,428,628	8.9	8.7	0.7
229,429,629	0	1.2	0.1
31	9.0	0	9.0
32	9.0	0.1	9.0

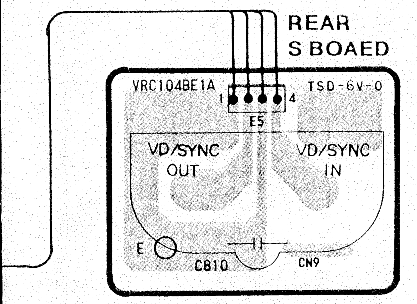
	IC1,201 401,601	IC3	IC4,204 404,604	IC5,205 405,605	IC6,206 406,606	IC7,207 407,607	IC8	IC9
Pin 1	18.5	4.5	8.9	1.9	5.3	0	17.5	0.2
2	0	8.9	8.9	1.9	5.3	1.5	0	1.2
3	9.0	4.5	0.1	0.8	5.3	0	12.9	0.7

Pattern Side

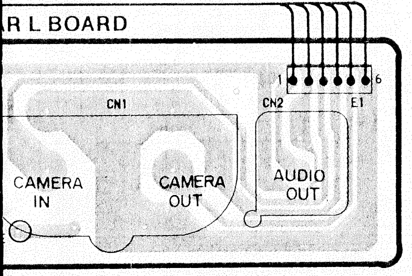
IC3	C2	Q23	B2
IC4	C2	Q24	B2
IC6	C2	Q25	C2
IC7	B2	Q26	C2
IC9	B1	Q27	C2
IC204	B3	Q28	C2

CONDUCTOR VIEW

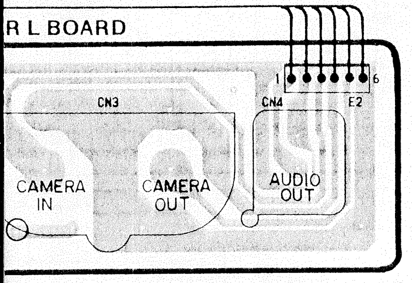

E101
AC Power Cord


REAR
S BOAED
VRC104BE1A
TSD-6V-0
1
4
E5
VD/SYNC
OUT
VD/SYNC
IN
E
C810
CN9

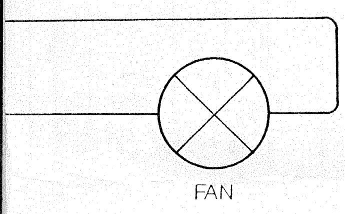
(COMPONENT SIDE)

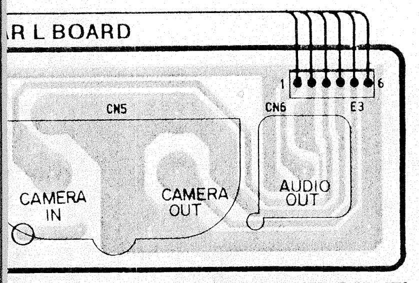

R L BOARD
CN1
CN2
1
6
E1
CAMERA
IN
CAMERA
OUT
AUDIO
OUT

(COMPONENT SIDE)

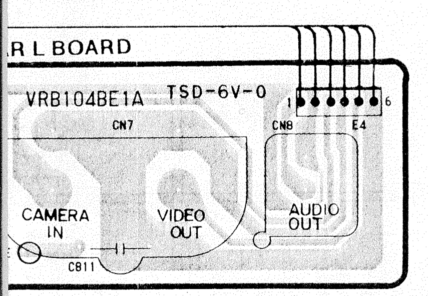

R L BOARD
CN3
CN4
1
6
E2
CAMERA
IN
CAMERA
OUT
AUDIO
OUT

(COMPONENT SIDE)




R L BOARD
CN5
CN6
1
6
E3
CAMERA
IN
CAMERA
OUT
AUDIO
OUT

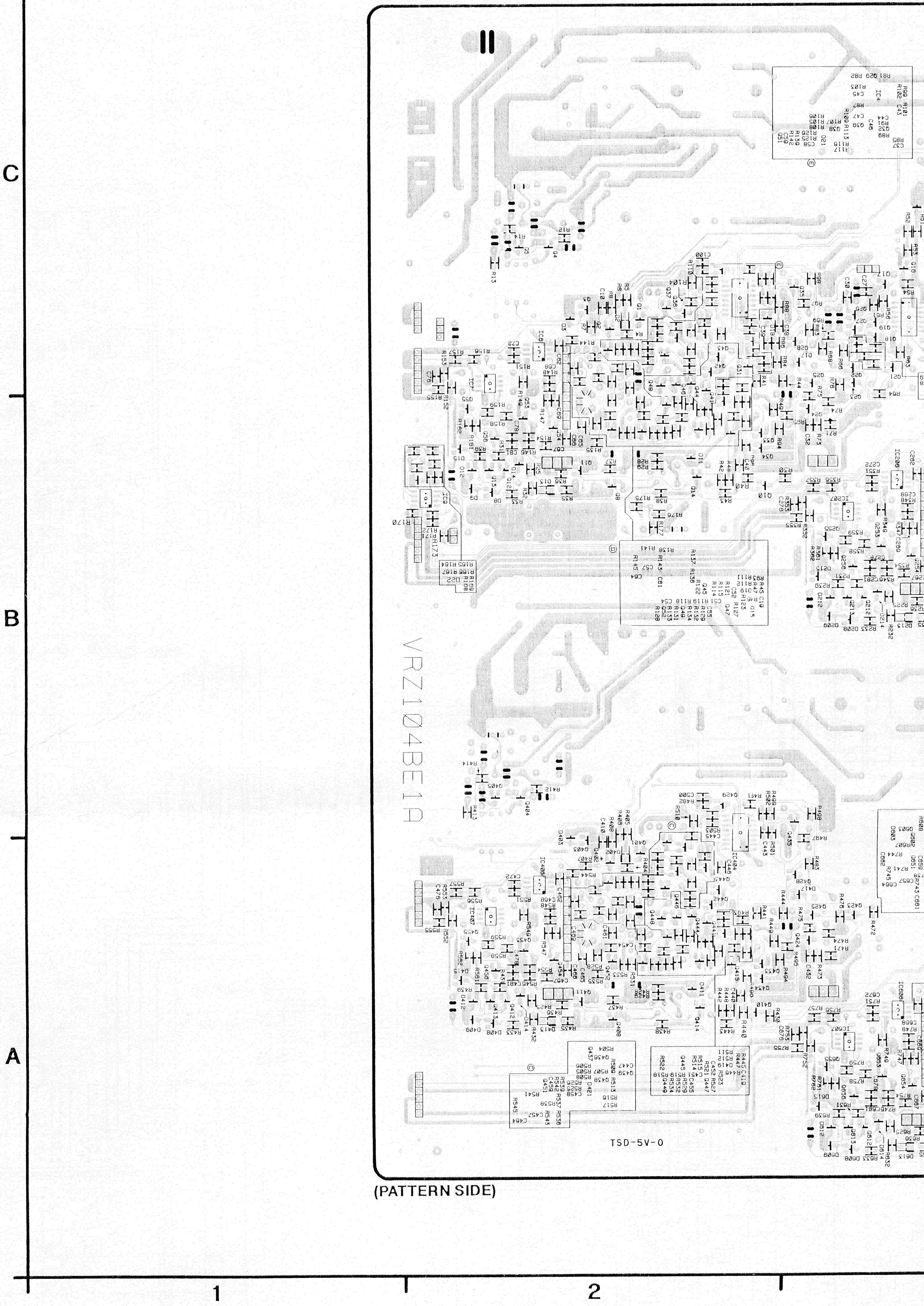
(COMPONENT SIDE)


R L BOARD
VRB104BE1A
TSD-6V-0
CN7
CN8
1
6
E4
CAMERA
IN
VIDEO
OUT
AUDIO
OUT
C811

(COMPONENT SIDE)

4

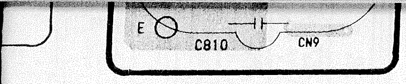
MAIN BOARD


C
B
A
1
2
VRZ104BE1A
TSD-5V-0

(PATTERN SIDE)

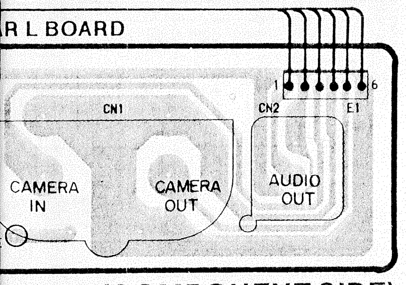
Pattern Side

IC3	C2	Q23	B2	Q203	B3	Q253	B2	Q446	A2	Q639	A3	D203	
IC4	C2	Q24	B2	Q204	C3	Q254	B2	Q447	A2	Q641	A3	D209	
IC6	C2	Q25	C2	Q205	C3	Q255	B2	Q448	A2	Q642	A3	D211	
IC7	B2	Q26	C2	Q208	B3	Q256	B2	Q449	A2	Q643	A3	D212	
IC9	B1	Q27	C2	Q210	B3	Q401	A1	Q451	A2	Q644	A3	D213	
IC204	B3	Q28	C2	Q211	B3	Q402	A2	Q452	A2	Q645	A3	D214	



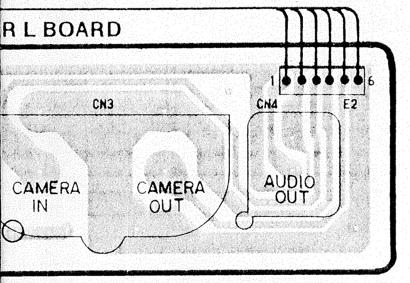
(COMPONENT SIDE)

R L BOARD

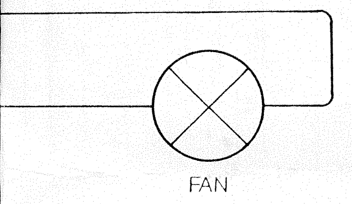

1
6
CN1
CN2
E1
CAMERA IN
CAMERA OUT
AUDIO OUT

(COMPONENT SIDE)

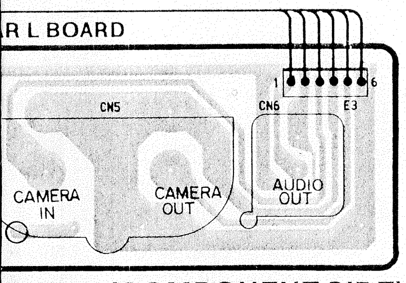
R L BOARD


1
6
CN3
CN4
E2
CAMERA IN
CAMERA OUT
AUDIO OUT

(COMPONENT SIDE)

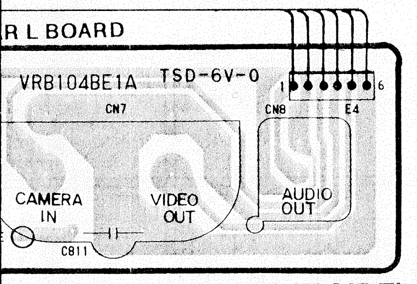


R L BOARD


1
6
CN5
CN6
E3
CAMERA IN
CAMERA OUT
AUDIO OUT

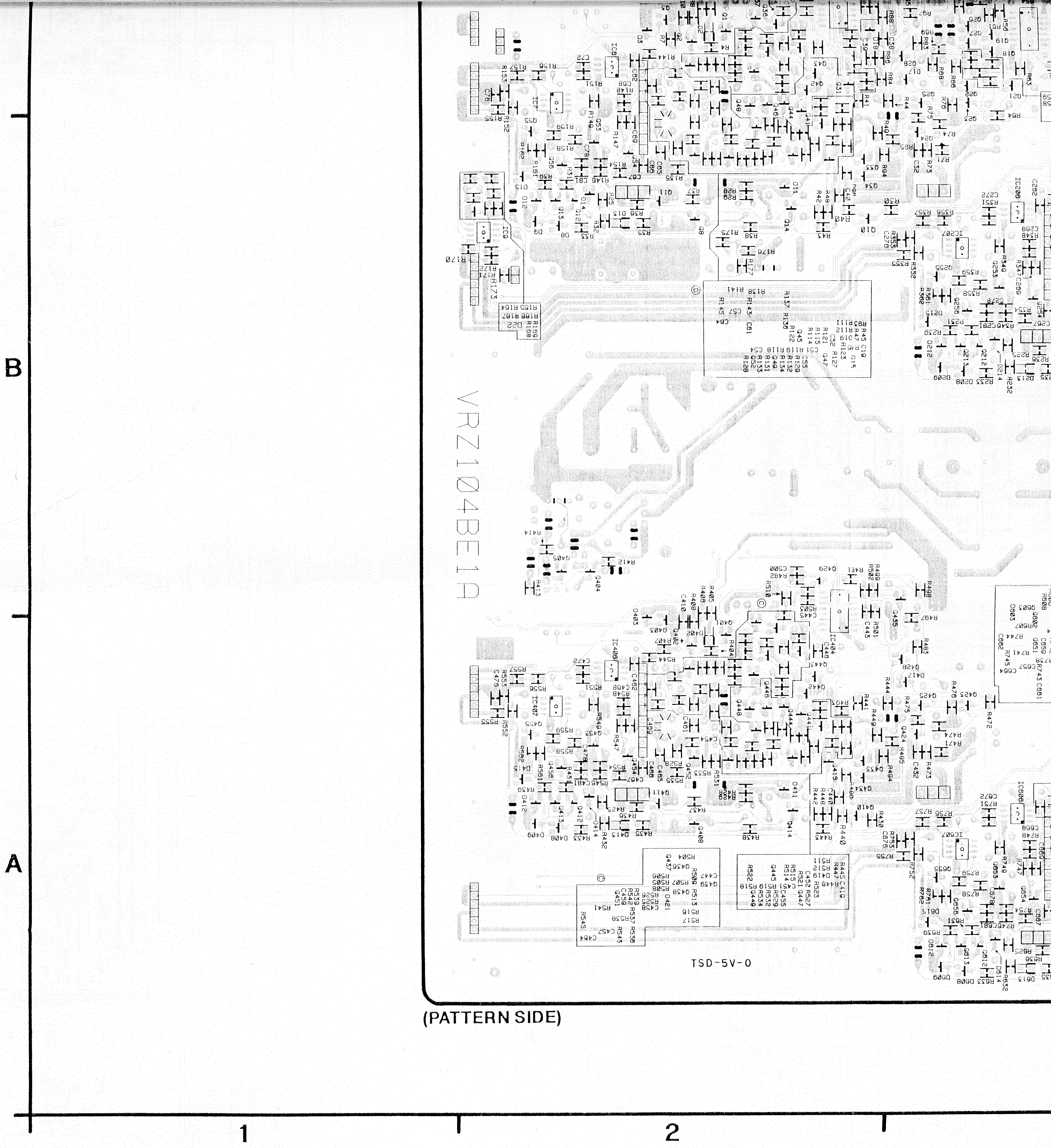
(COMPONENT SIDE)

R L BOARD


VRB104BE1A
TSD-6V-0
1
6
CN7
CN8
E4
CAMERA IN
VIDEO OUT
AUDIO OUT
CB11

(COMPONENT SIDE)

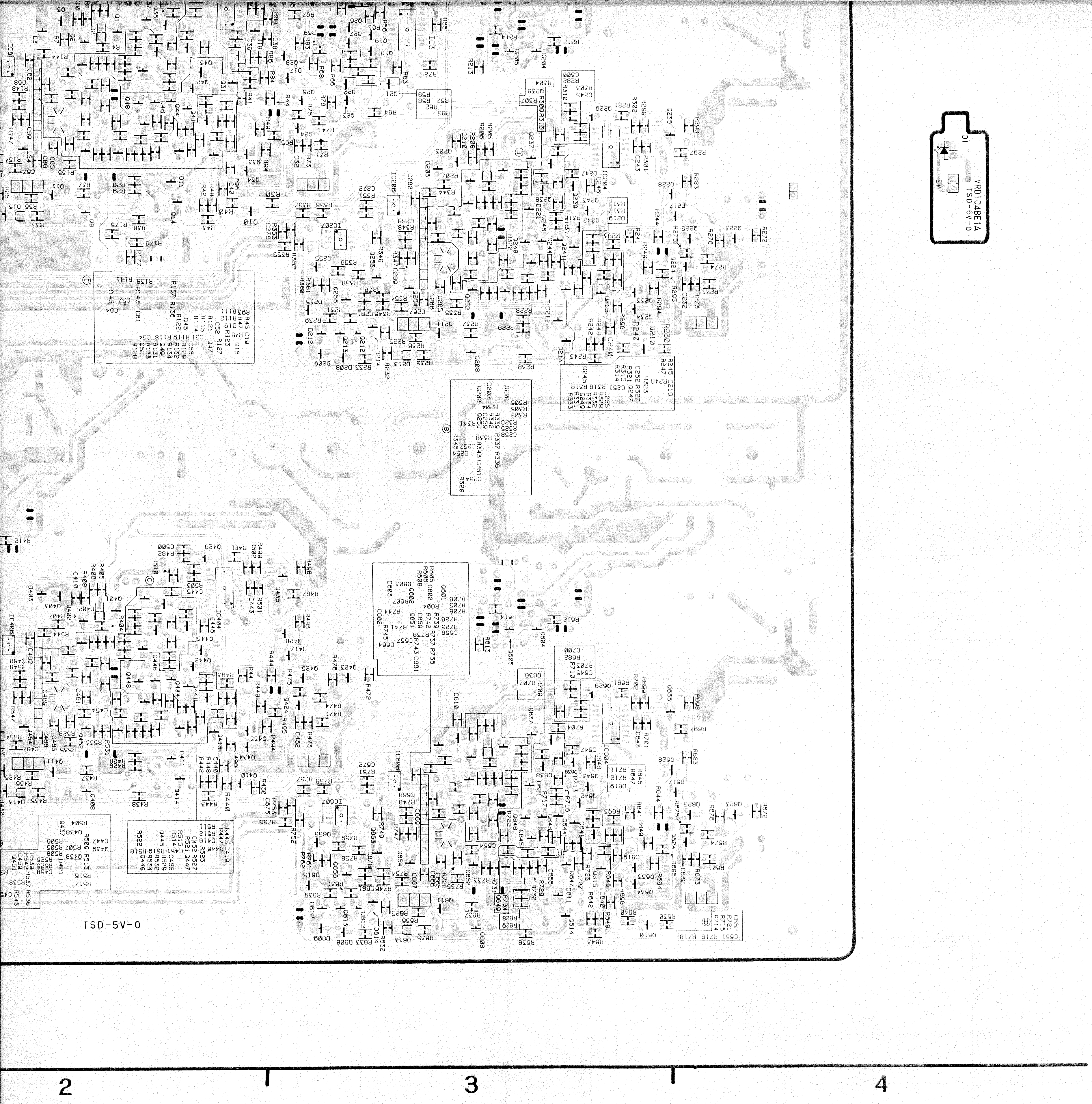
4


B
A
1
2
VRZ104BE1A
TSD-5V-0

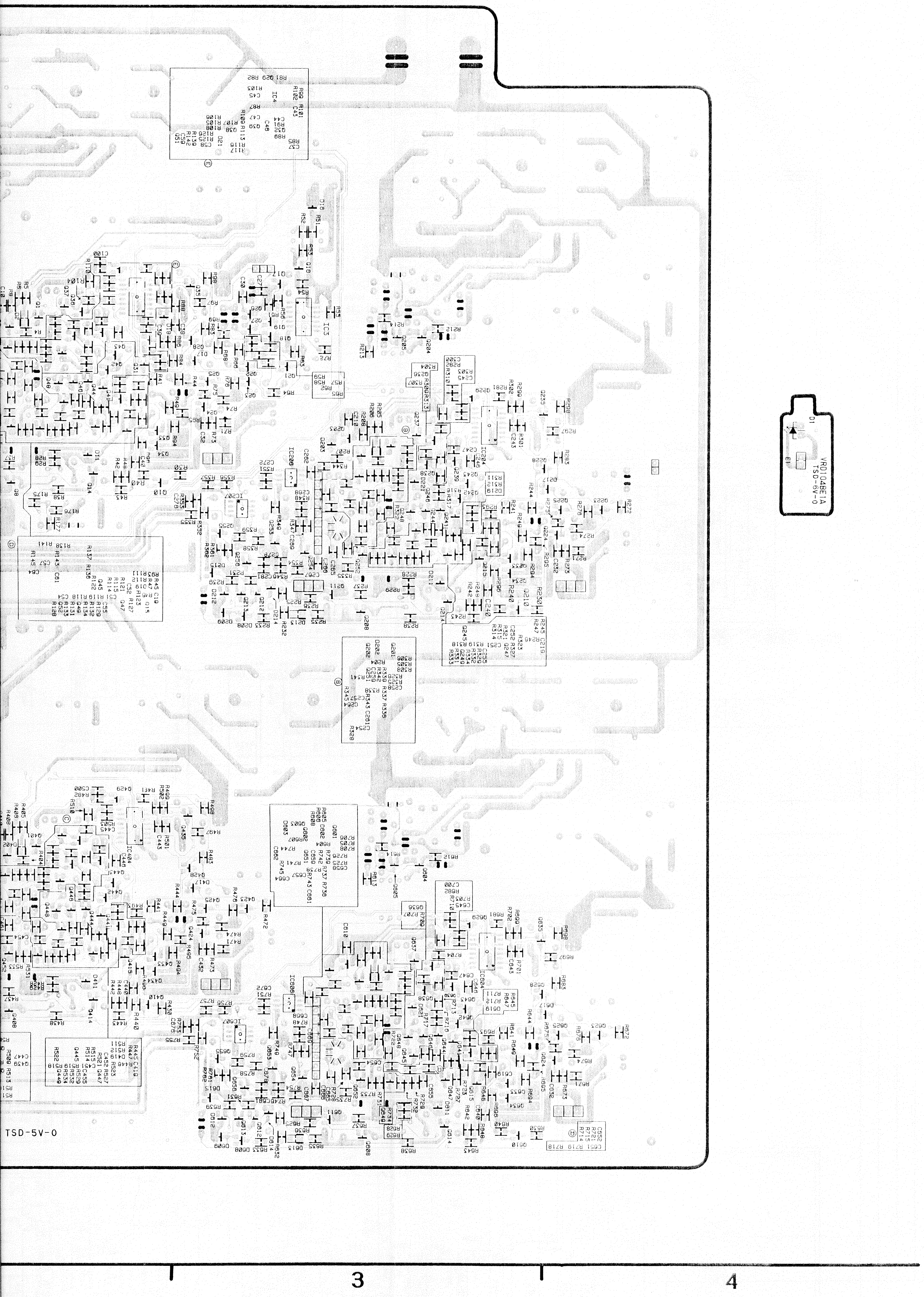
(PATTERN SIDE)

Pattern Side

IC3	C2
IC4	C2
IC6	C2
IC7	B2
IC9	B1
IC204	B3
IC206	B2
IC207	B2
IC404	A2
IC406	A2
IC407	A2
IC604	A3
IC606	A2
IC607	A2
Q1	C2
Q2	C2
Q3	C2
Q4	C2
Q5	C2
Q8	B2
Q10	B2
Q11	B2
Q12	B2
Q13	B2
Q14	B2
Q15	B2
Q16	C2
Q17	C2
Q18	C2
Q19	C2
Q21	C2
Q22	C2
Q23	B2
Q24	B2
Q25	C2
Q26	C2
Q27	C2
Q28	C2
Q29	C2
Q31	C2
Q32	C2
Q33	B2
Q34	B2
Q35	C2
Q36	C2
Q37	C2
Q38	C2
Q39	C2
Q41	B2
Q42	C2
Q43	C2
Q44	B2
Q45	B2
Q46	B2
Q47	B2
Q48	B2
Q49	B2
Q51	C2
Q52	B2
Q53	B2
Q54	B2
Q55	B2
Q56	B2
Q201	B3
Q202	B3
Q203	B3
Q204	C3
Q205	C3
Q208	B3
Q210	B3
Q211	B3
Q212	B2
Q213	B2
Q214	B3
Q215	B3
Q223	B3
Q224	B3
Q225	B3
Q228	B3
Q229	B3
Q233	B3
Q234	B3
Q235	B3
Q236	C3
Q237	B3
Q238	B3
Q239	B3
Q241	B3
Q242	B3
Q243	B3
Q244	B3
Q245	B3
Q246	B3
Q247	B3
Q248	B3
Q249	B3
Q251	B3
Q252	B3
Q253	B2
Q254	B2
Q255	B2
Q256	B2
Q401	A1
Q402	A2
Q403	A2
Q404	B2
Q405	B2
Q408	A2
Q410	A2
Q411	A2
Q412	A2
Q413	A2
Q414	A2
Q415	A2
Q423	A2
Q424	A2
Q425	A2
Q428	A2
Q429	B2
Q433	A2
Q434	A2
Q435	A2
Q436	A2
Q437	A2
Q438	A2
Q439	A2
Q441	A2
Q442	A2
Q443	A2
Q444	A2
Q445	A2
Q446	A2
Q447	A2
Q448	A2
Q449	A2
Q451	A2
Q452	A2
Q453	A2
Q454	A2
Q455	A1
Q456	A2
Q601	C3
Q602	C3
Q603	C3
Q604	C3
Q605	A3
Q608	C3
Q610	A3
Q611	A2
Q612	A2
Q613	A2
Q614	A3
Q615	A3
Q623	A3
Q624	A3
Q625	A3
Q628	A3
Q629	A3
Q633	A3
Q634	A3
Q635	A3
Q636	A3
Q637	A3
Q638	A3
Q639	A3
Q641	A3
Q642	A3
Q643	A3
Q644	A3
Q645	A3
Q646	A3
Q647	A3
Q648	A3
Q649	A3
Q651	A3
Q652	A3
Q653	A2
Q654	A2
Q655	C2
Q656	C2
D2	C2
D3	C2
D8	B2
D9	B2
D11	B2
D12	B2
D13	B2
D14	B2
D15	A2
D16	C2
D17	C2
D18	C2
D19	B2
D21	C2
D22	B1
D202	B3
D203	
D209	
D211	
D212	
D213	
D214	
D215	
D217	
D219	
D221	
D402	
D403	
D408	
D409	
D411	
D412	
D413	
D414	
D415	
D417	
D419	
D421	
D602	
D603	
D608	
D609	
D611	
D612	
D613	
D614	
D615	
D617	
D619	



Q446	A2	Q639	A3	D203	B3	D621	A3
Q447	A2	Q641	A3	D209	B2		
Q448	A2	Q642	A3	D211	B3		
Q449	A2	Q643	A3	D212	B2		
Q451	A2	Q644	A3	D213	B2		
Q452	A2	Q645	A3	D214	B2		
Q453	A2	Q646	A3	D215	B2		
Q454	A2	Q647	A3	D217	B3		
Q455	A1	Q648	A3	D219	B3		
Q456	A2	Q649	A3	D221	B3		
Q601	C3	Q651	A3	D402	A2		
Q602	C3	Q652	A3	D403	A2		
Q603	C3	Q653	A2	D408	A2		
Q604	C3	Q654	A2	D409	A1		
Q605	A3	Q655	C2	D411	A2		
Q608	C3	Q656	C2	D412	A1		
Q610	A3			D413	A2		
Q611	A2	D2	C2	D414	A2		
Q612	A2	D3	C2	D415	A1		
Q613	A2	D8	B2	D417	A2		
Q614	A3	D9	B2	D419	A2		
Q615	A3	D11	B2	D421	A2		
Q623	A3	D12	B2	D602	A3		
Q624	A3	D13	B2	D603	A3		
Q625	A3	D14	B2	D608	A2		
Q628	A3	D15	A2	D609	A2		
Q629	A3	D16	C2	D611	A3		
Q633	A3	D17	C2	D612	A2		
Q634	A3	D18	C2	D613	C2		
Q635	A3	D19	B2	D614	A2		
Q636	A3	D21	C2	D615	A2		
Q637	A3	D22	B1	D617	A3		
Q638	A3	D202	B3	D619	A3		


TSD-5V-0
3
4

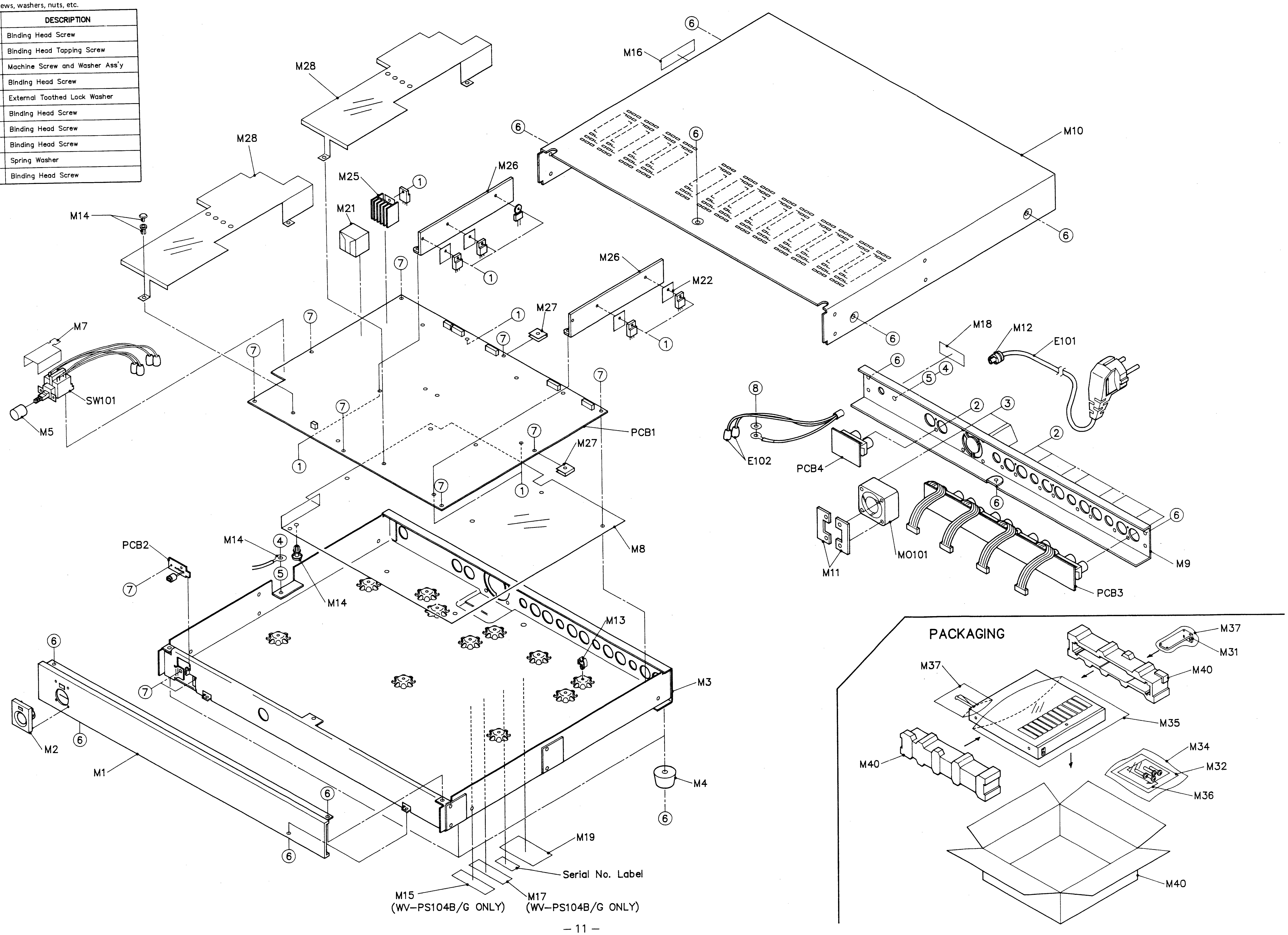
VRD104BE1A
TSD-6V-0
D1
E1

Q446	A2	Q639	A3	D203	B3	D621	A3
Q447	A2	Q641	A3	D209	B2		
Q448	A2	Q642	A3	D211	B3		
Q449	A2	Q643	A3	D212	B2		
Q451	A2	Q644	A3	D213	B2		
Q452	A2	Q645	A3	D214	B2		

EXPLODED VIEW

○ Numbers show screws, washers, nuts, etc.

No.	SCREW	DESCRIPTION
①	XSB3+8FX	Binding Head Screw
②	XTN3+8CFN	Binding Head Tapping Screw
③	XYN3+F25FN	Machine Screw and Washer Ass'y
④	XSB4+6FN	Binding Head Screw
⑤	XWC4BFN	External Toothed Lock Washer
⑥	XTB3+12FFX	Binding Head Screw
⑦	XTB3+6FFN	Binding Head Screw
⑧	XSB4+6	Binding Head Screw
⑨	XWC4B	Spring Washer
⑩	XSB3+10FN	Binding Head Screw


M16
⑥
M10
M28
M28
M25
①
M26
M21
M14
⑦
M26
M22
M27
M7
SW101
M5
PCB1
M27
M8
M18
M12
E101
E102
PCB4
M0101
M11
PCB3
M9
PCB2
M14
④
⑤
②
③
⑧
M13
M3
M2
M1
M4
M19
Serial No. Label
M15
(WV-PS104B/G ONLY)
M17
(WV-PS104B/G ONLY)
PACKAGING
M37
M31
M40
M35
M34
M32
M36

REPLACEMENT PARTS LIST

Important Notice

1. Components identified by "⚠" mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
2. RTL : Retention Time Limited

MISCELLANEOUS

REF.NO.	PART NO.	DESCRIPTION
SW101 ⚠	YWESB99682V	Power Switch
MO101	YWP0424H608	DC Motor
E101 ⚠	YWACJ450/A	AC Power Cord for WV-PS104/A
	YWACJ450/B	AC Power Cord for WV-PS104/B
	YWACJ450/G	AC Power Cord for WV-PS104/G
E102	YFCD20ACCAP	Insulator Cap
M1	YWV5WD1077A2	Panel
M2	YWA5CD0009A3	Card Holder
M3	YWV2KA0689A1	Main Chassis
M4	YWV5350WB01	Rubber Foot
M5	YWA5RG0141A3	Power Knob
M7	YWV2PA0367A4	Insulator Cover for Power Switch
M8	YWV2PA0477A3	Insulator Plate
M9	YWV2KA0780A2	Rear Chassis
M10	YWV5EA1035A1	Upper Cover
M11	YWV1FA0066A4	Nut
M12	YWSR6W1	Cord Clamp
M13	UAMS-05SV0	Cord Clamp
M14	YW0920	Tact (X4)
M15	YFV7MA0081A4	Earth Label for WV-PS104/G
M16	YFV7MB0099A4	UL Label
M17	YFV7MA0015A4	Earth Label for WV-PS104/G
M18	YWV7QA2372A4	System Label
M19 ⚠	YWV7QA2782A4	Main Label for WV-PS104/A
	YWV7QA2785A4	Main Label for WV-PS104/B
	YWV7QA2786A4	Main Label for WV-PS104/G
M20	YW-BCG-EM01	Earth Lug

MAIN BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB1 (RTL)	YWVKZ104BE1A	Printed Circuit Board Assy
IC1	YWNJM78M09FA	IC
IC3	HD14011BFP	IC
IC4	HD14049UBFP	IC
IC5	YWTA7303P	IC
IC6	NJM4560M	IC
IC7	YWM51957BFP	IC
IC8	AN6530	IC
IC9	YWNJM2403M	IC
IC201	YWNJM78M09FA	IC
IC204	HD14049UBFP	IC
IC205	YWTA7303P	IC
IC206	NJM4560M	IC
IC207	YWM51957BFP	IC
IC401	YWNJM78M09FA	IC
IC404	HD14049UBFP	IC
IC405	YWTA7303P	IC
IC406	NJM4560M	IC
IC407	YWM51957BFP	IC
IC601	YWNJM78M09FA	IC
IC604	HD14049UBFP	IC
IC605	YWTA7303P	IC
IC606	NJM4560M	IC
IC607	YWM51957BFP	IC
Q1,2	2SD601-RS	Transistor
Q3	2SB709-QRS	Transistor
Q4,5	2SD601-RS	Transistor
Q6	2SC1384-QRS	Transistor
Q7	2SC3559	Transistor
Q8	2SD601-RS	Transistor
Q9	2SA748-QR	Transistor
Q10,11	2SD601-RS	Transistor
Q12	2SB709-QRS	Transistor
Q13,14	2SD601-RS	Transistor
Q15	2SB709-QRS	Transistor
Q16	2SD601-RS	Transistor
Q17	2SB709-QRS	Transistor
Q18,19	2SD601-RS	Transistor
Q21	2SD601-RS	Transistor
Q22	2SB709-QRS	Transistor
Q23-25	2SD601-RS	Transistor
Q26	2SD602-QRS	Transistor
Q27	2SB710-QRS	Transistor
Q28,29	2SD601-RS	Transistor
Q31-33	2SB709-QRS	Transistor
Q34	2SD601-RS	Transistor
Q35	2SB709-QRS	Transistor
Q36,37	2SD601-RS	Transistor
Q38,39	2SB709-QRS	Transistor
Q41	2SB709-QRS	Transistor
Q42-44	2SD601-RS	Transistor
Q45,46	2SB709-QRS	Transistor
Q47,48	2SD601-RS	Transistor
Q49,51	2SC2404-CD	Transistor
Q52	2SD601-RS	Transistor
Q53	2SD602-QRS	Transistor
Q54	2SB709-QRS	Transistor
Q55	DTC343TF	Transistor
Q56	2SB709-QRS	Transistor
Q57	2SC1384-QRS	Transistor
Q201,202	2SD601-RS	Transistor
Q203	2SB709-QRS	Transistor
Q204,205	2SD601-RS	Transistor
Q206	2SC1384-QRS	Transistor
Q207	2SC3559	Transistor
Q208	2SD601-RS	Transistor
Q209	2SA748-QR	Transistor
Q210,211	2SD601-RS	Transistor
Q212	2SB709-QRS	Transistor
Q213,214	2SD601-RS	Transistor
Q215	2SB709-QRS	Transistor
Q223-225	2SD601-RS	Transistor
Q228,229	2SD601-RS	Transistor
Q233	2SB709-QRS	Transistor
Q234	2SD601-RS	Transistor
Q235	2SB709-QRS	Transistor
Q236,237	2SD601-RS	Transistor
Q238,239	2SB709-QRS	Transistor
Q241	2SB709-QRS	Transistor
Q242-244	2SD601-RS	Transistor
Q245,246	2SB709-QRS	Transistor
Q247,248	2SD601-RS	Transistor
Q249,251	2SC2404-CD	Transistor
Q252	2SD601-RS	Transistor
Q253	2SD602-QRS	Transistor
Q254	2SB709-QRS	Transistor
Q255	DTC343TF	Transistor
Q256	2SB709-QRS	Transistor
Q401,402	2SD601-RS	Transistor
Q403	2SB709-QRS	Transistor
Q404,405	2SD601-RS	Transistor
Q406	2SC1384-QRS	Transistor
Q407	2SC3559	Transistor
Q408	2SD601-RS	Transistor
Q409	2SA748-QR	Transistor
Q410,411	2SD601-RS	Transistor
Q412	2SB709-QRS	Transistor
Q413,414	2SD601-RS	Transistor
Q415	2SB709-QRS	Transistor
Q423-425	2SD601-RS	Transistor
Q428,429	2SD601-RS	Transistor
Q433	2SB709-QRS	Transistor
Q434	2SD601-RS	Transistor
Q435	2SB709-QRS	Transistor
Q436,437	2SD601-RS	Transistor
Q438,439	2SB709-QRS	Transistor
Q441	2SB709-QRS	Transistor
Q442-444	2SD601-RS	Transistor
Q445,446	2SB709-QRS	Transistor
Q447,448	2SD601-RS	Transistor
Q449,451	2SC2404-CD	Transistor
Q452	2SD601-RS	Transistor
Q453	2SD602-QRS	Transistor
Q454	2SB709-QRS	Transistor
Q455	DTC343TF	Transistor
Q456	2SB709-QRS	Transistor
Q601,602	2SD601-RS	Transistor
Q603	2SB709-QRS	Transistor
Q604,605	2SD601-RS	Transistor
Q606	2SC1384-QRS	Transistor
Q607	2SC3559	Transistor
Q608	2SD601-RS	Transistor
Q609	2SA748-QR	Transistor
Q610,611	2SD601-RS	Transistor
Q612	2SB709-QRS	Transistor
Q613,614	2SD601-RS	Transistor
Q615	2SB709-QRS	Transistor
Q623-625	2SD601-RS	Transistor
Q628,629	2SD601-RS	Transistor
Q633	2SB709-QRS	Transistor
Q634	2SD601-RS	Transistor
Q635	2SB709-QRS	Transistor
Q636,637	2SD601-RS	Transistor
Q638,639	2SB709-QRS	Transistor
Q641	2SB709-QRS	Transistor
Q642-644	2SD601-RS	Transistor
Q645,646	2SB709-QRS	Transistor
Q647,648	2SD601-RS	Transistor
Q649,651	2SC2404-CD	Transistor
Q652	2SD601-RS	Transistor
Q653	2SD602-QRS	Transistor
Q654	2SB709-QRS	Transistor
Q655	DTC343TF	Transistor
Q656	2SB709-QRS	Transistor
D1	S1WBA60	Diode
D2	MA8051M	Diode
D3	MA3240M	Diode
D4,5	YWAM01Z	Diode
D6	ES1F	Diode
D7	RG2Z	Diode
D8	MA151A	Diode
D9	MA3043M	Diode
D10	YWPC111	Diode
D11	MA3051M	Diode
D12	MA152A	Diode

REF.NO.	PART NO.	DESCRIPTION	
D13	MA8160	Diode	
D14,15	MA151A	Diode	
D16	MA3051M	Diode	
D17,18	MA151A	Diode	
D19,21	YWDAN202K	Diode	
D22	MA151A	Diode	
D201	S1WBA60	Diode	
D202	MA8051M	Diode	
D203	MA3240M	Diode	
D204,205	YWAM01Z	Diode	
D206	ES1F	Diode	
D207	RG2Z	Diode	
D208	MA151A	Diode	
D209	MA3043M	Diode	
D210	YWPC111	Diode	
D211	MA3051M	Diode	
D212	MA152A	Diode	
D213	MA8160	Diode	
D214,215	MA151A	Diode	
D217	MA151A	Diode	
D219,221	YWDAN202K	Diode	
D401	S1WBA60	Diode	
D402	MA8051M	Diode	
D403	MA3240M	Diode	
D404,405	YWAM01Z	Diode	
D406	ES1F	Diode	
D407	RG2Z	Diode	
D408	MA151A	Diode	
D409	MA3043M	Diode	
D410	YWPC111	Diode	
D411	MA3051M	Diode	
D412	MA152A	Diode	
D413	MA8160	Diode	
D414,415	MA151A	Diode	
D417	MA151A	Diode	
D419,421	YWDAN202K	Diode	
D601	S1WBA60	Diode	
D602	MA8051M	Diode	
D603	MA3240M	Diode	
D604,605	YWAM01Z	Diode	
D606	ES1F	Diode	
D607	RG2Z	Diode	
D608	MA151A	Diode	
D609	MA3043M	Diode	
D610	YWPC111	Diode	
D611	MA3051M	Diode	
D612	MA152A	Diode	
D613	MA8160	Diode	
D614,615	MA151A	Diode	
D617	MA151A	Diode	
D619,621	YWDAN202K	Diode	
TH1	YWPTH9MD222	Thermistor	
TH2	ERTD2ZGJ332S	Thermistor	
VS1	ERZC10DK471U	Varistor	
R1	ERC12ZGM105	Solid Resistor	1M ohms 2W

REF.NO.	PART NO.	DESCRIPTION	
R2	ERF5TJ100	Wire Wound	10 ohms 5W
R3	ERC12ZGM156	Solid Resistor	15M ohms 1/2W
R4	ERJ6ENF2202	Metal	22Kohms
R5	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R6	ERJ6ENF3301	Metal	3.3Kohms
R7	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R8	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R9	ERD25FJ331	Carbon	330 ohms 1/4W
R10	ERDS1VJ224	Carbon	220K ohms 1/2W
R11	ERDS2TJ102	Carbon	1K ohms 1/4W
R12	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R13	ERJ6GEYJ334	Carbon	330K ohms 1/10W
R14	YF2116333GT	Carbon	33K ohms 1/16W
R15	ERDS2TJ102	Carbon	1K ohms 1/4W
R16	ERDS2TJ472	Carbon	4.7K ohms 1/4W
R17	ERDS1VJ224	Carbon	220K ohms 1/2W
R18,19	ERG2SJ470	Metal	47 ohms 2W
R21	ERDS2TJ101	Carbon	100 ohms 1/4W
R22	ERX2ANJ1R8	Metal	1.8 ohms 2W
R23	ERG2ANJ333U	Metal	33K ohms 2W
R24	ERDS2TJ751	Carbon	750 ohms 1/4W
R25	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R26	ERDS2TJ222	Carbon	2.2K ohms 1/4W
R27	ERDS1TJ102	Carbon	1K ohms 1W
R28	R1220P331D	Metal	330K ohms
R29	YWR1220P561D	Metal	560 ohms
R30	YF2116473GT	Carbon	47K ohms 1/16W
R31	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R32	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R33	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R34	ERX2SJ3R9	Metal	3.9 ohms 2W
R35	YF2116303GT	Carbon	30K ohms 1/16W
R36	ERJ6ENF6200	Metal	620ohms
R37	ERJ6ENF3301	Metal	3.3Kohms
R38	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R39	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R40	YF2116333GT	Carbon	33K ohms 1/16W
R41	ERJ6ENF2202	Metal	22Kohms
R42	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R43	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R44	ERJ6ENF3301	Metal	3.3Kohms
R45	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R46	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R47	YF2116304JT	Carbon	300K ohms 1/16W
R48	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R49	ERJ6GEYJ820	Carbon	82 ohms 1/10W
R51	ERJ6GEYJ561	Carbon	560 ohms 1/10W
R52,53	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R54	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R55	YF2116333GT	Carbon	33K ohms 1/16W
R56	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R57	YF2116113JT	Carbon	11K ohms 1/16W
R58	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R59	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R61	ERJ6GEYJ103	Carbon	10K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R62	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R63	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R64,65	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R66	ERJ6GEYJ330	Carbon	33 ohms 1/10W
R67	ERDS2TJ750	Carbon	75 ohms 1/4W
R68	YF2116333GT	Carbon	33K ohms 1/16W
R69	YF2116154JT	Carbon	150K ohms 1/16W
R71	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R72	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R73	ERJ6GEYJ822	Carbon	8.2K ohms 1/10W
R74	YF2116563JT	Carbon	56K ohms 1/16W
R75	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R76	YF2116333GT	Carbon	33K ohms 1/16W
R77,78	ERD10TJ1R0	Carbon	1 ohms 1/4W
R79	ERDS2TJ680	Carbon	68 ohms 1/4W
R81	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R82	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R83	YF2116333GT	Carbon	33K ohms 1/16W
R84	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R85	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R86	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R87	ERJ6GEYJ162	Carbon	1.6K ohms 1/10W
R88	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R89	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R91	ERJ6GEYJ162	Carbon	1.6K ohms 1/10W
R92	ERDS2TJ680	Carbon	68 ohms 1/4W
R93	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R94,95	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R96	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R97	YF2116333GT	Carbon	33K ohms 1/16W
R98	YF2116154JT	Carbon	150K ohms 1/16W
R99	ERJ6GEYJ330	Carbon	33 ohms 1/10W
R101-103	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R104	ERJ6GEYJ622	Carbon	6.2K ohms 1/10W
R105	YWR1220P302D	Metal	3K ohms
R106	R1220P151D	Metal	150 ohms
R107	YWR1220P182D	Metal	1.8K ohms
R108	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R109	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R110	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R111	YWR1220P512D	Metal	5.1K ohms
R112	YWR1220P332D	Metal	3.3K ohms
R113	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R114	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R115	YF2116473GT	Carbon	47K ohms 1/16W
R116	ERJ6GEYJ273	Carbon	27K ohms 1/10W
R117	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R118	ERJ6GEYJ681	Carbon	680 ohms 1/10W
R119	ERJ6GEYJ821	Carbon	820 ohms 1/10W
R121	ERJ6GEYJ151	Carbon	150 ohms 1/10W
R122	YF2116202JT	Carbon	2K ohms 1/16W
R123	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R124	ERDS2TJ221	Carbon	220 ohms 1/4W
R125,126	YF2116131JT	Carbon	130 ohms 1/16W
R127	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R128,129	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R131,132	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R133	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R134	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R135	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R136,137	ERJ6GEYJ331	Carbon	330 ohms
R138	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R139	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R141	ERJ6GEYJ471	Carbon	470 ohms 1/10W
R142	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R143	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R144	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R145	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R146	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
R147-149	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R151	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R152	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R153	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R154	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R155	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R156	YF2116113JT	Carbon	11K ohms 1/16W
R157	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R158	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R159	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R161	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R163	ERJ6GEYJ471	Carbon	470 ohms 1/10W
R164	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R165,166	YF2116473GT	Carbon	47K ohms 1/16W
R167	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R168,169	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R170,171	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R172	YF2116473GT	Carbon	47K ohms 1/16W
R173	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R175	ERJ6GEYJ912	Carbon	9.1K ohms 1/10W
R176	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R202	ERF5TJ100	Wire Wound	10 ohms 5W
R203	ERC12ZGM156	Solid Resistor	15M ohms 1/2W
R204	ERJ6ENF2202	Metal	22Kohms
R205	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R206	ERJ6ENF3301	Metal	3.3Kohms
R207	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R208	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R209	ERD25FJ331	Carbon	330 ohms 1/4W
R210	ERDS1VJ224	Carbon	220K ohms 1/2W
R211	ERDS2TJ102	Carbon	1K ohms 1/4W
R212	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R213	ERJ6GEYJ334	Carbon	330K ohms 1/10W
R214	YF2116333GT	Carbon	33K ohms 1/16W
R215	ERDS2TJ102	Carbon	1K ohms 1/4W
R216	ERDS2TJ472	Carbon	4.7K ohms 1/4W

REF.NO.	PART NO.	DESCRIPTION	
R217	ERDS1VJ224	Carbon	220K ohms 1/2W
R218,219	ERG2SJ470	Metal	47 ohms 2W
R221	ERDS2TJ101	Carbon	100 ohms 1/4W
R222	ERX2ANJ1R8	Metal	1.8 ohms
R223	ERG2ANJ333U	Metal	33K ohms 2W
R225	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R226	ERDS2TJ222	Carbon	2.2K ohms 1/4W
R227	ERDS1TJ102	Carbon	1K ohms 1/2W
R228	R1220P331D	Metal	330K ohms
R229	YWR1220P561D	Metal	560 ohms
R230	YF2116473GT	Carbon	47K ohms 1/16W
R231	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R232	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R233	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R234	ERX2SJ3R9	Metal	3.9 ohms 1/10W
R235	YF2116303GT	Carbon	30K ohms 1/16W
R236	ERJ6ENF6200	Metal	620ohms
R237	ERJ6ENF3301	Metal	3.3Kohms
R238	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R239	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R240	YF2116333GT	Carbon	33K ohms 1/16W
R241	ERJ6ENF2202	Metal	22Kohms
R242	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R243	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R244	ERJ6ENF3301	Metal	3.3Kohms
R245	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R246	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R247	YF2116304JT	Carbon	300K ohms 1/16W
R248	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R249	ERJ6GEYJ820	Carbon	82 ohms 1/10W
R271	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R272	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R273	ERJ6GEYJ822	Carbon	8.2K ohms 1/10W
R274	YF2116563JT	Carbon	56K ohms 1/16W
R275	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R276	YF2116333GT	Carbon	33K ohms 1/16W
R281	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R282	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R283	YF2116333GT	Carbon	33K ohms 1/16W
R292	ERDS2TJ680	Carbon	68 ohms 1/4W
R293	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R294,295	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R296	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R297	YF2116333GT	Carbon	33K ohms 1/16W
R298	YF2116154JT	Carbon	150K ohms 1/16W
R299	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R301-303	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R304	ERJ6GEYJ622	Carbon	6.2K ohms 1/10W
R305	YWR1220P302D	Metal	3K ohms
R306	R1220P151D	Metal	150 ohms
R307	YWR1220P182D	Metal	1.8K ohms
R308	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R309	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R310	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R311	YWR1220P512D	Metal	5.1K ohms

REF.NO.	PART NO.	DESCRIPTION	
R312	YWR1220P332D	Metal	3.3K ohms
R313	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R314	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R315	YF2116473GT	Carbon	47K ohms 1/16W
R316	ERJ6GEYJ273	Carbon	27K ohms 1/10W
R317	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R318	ERJ6GEYJ681	Carbon	680 ohms 1/10W
R319	ERJ6GEYJ821	Carbon	820 ohms 1/10W
R321	ERJ6GEYJ151	Carbon	150 ohms 1/10W
R322	YF2116202JT	Carbon	2K ohms 1/16W
R323	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R324	ERDS2TJ221	Carbon	220 ohms 1/4W
R325,326	YF2116131JT	Carbon	130 ohms 1/16W
R327	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R328,329	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R331,332	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R333	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R334	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R335	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R336,337	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R338	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R339	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R341	ERJ6GEYJ471	Carbon	470 ohms 1/10W
R342	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R343	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R344	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R345	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R346	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
R347-349	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R351	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R352	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R353	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R354	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R355	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R356	YF2116113JT	Carbon	11K ohms 1/16W
R357	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R358	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R359	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R361	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R402	ERF5TJ100	Wire Wound	10 ohms 5W
R403	ERC12ZGM156	Solid Resistor	15M ohms 1/2W
R404	ERJ6ENF2202	Metal	22Kohms
R405	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R406	ERJ6ENF3301	Metal	3.3Kohms
R407	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R408	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R409	ERD25FJ331	Carbon	330 ohms 1/4W
R410	ERDS1VJ224	Carbon	220K ohms 1/2W
R411	ERDS2TJ102	Carbon	1K ohms 1/4W
R412	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R413	ERJ6GEYJ334	Carbon	330K ohms 1/10W
R414	YF2116333GT	Carbon	33K ohms 1/16W
R415	ERDS2TJ102	Carbon	1K ohms 1/4W
R416	ERDS2TJ472	Carbon	4.7K ohms 1/4W
R417	ERDS1VJ224	Carbon	220K ohms 1/2W

REF.NO.	PART NO.	DESCRIPTION	
R418,419	ERG2SJ470	Metal	47 ohms 2W
R421	ERDS2TJ101	Carbon	100 ohms 1/4W
R422	ERX2ANJ1R8	Metal	1.8 ohms 1/10W
R423	ERG2ANJ333U	Metal	33K ohms 2W
R425	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R426	ERDS2TJ222	Carbon	2.2K ohms 1/4W
R427	ERDS1TJ102	Carbon	1K ohms 1/2W
R428	R1220P331D	Metal	330K ohms
R429	YWR1220P561D	Metal	560 ohms
R430	YF2116473GT	Carbon	47K ohms 1/16W
R431	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R432	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R433	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R434	ERX2SJ3R9	Metal	3.9 ohms 2W
R435	YF2116303GT	Carbon	30K ohms 1/16W
R436	ERJ6ENF6200	Metal	620ohms
R437	ERJ6ENF3301	Metal	3.3Kohms
R438	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R439	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R440	YF2116333GT	Carbon	33K ohms 1/16W
R441	ERJ6ENF2202	Metal	22Kohms
R442	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R443	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R444	ERJ6ENF3301	Metal	3.3Kohms
R445	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R446	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R447	YF2116304JT	Carbon	300K ohms 1/16W
R448	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R449	ERJ6GEYJ820	Carbon	82 ohms 1/10W
R471	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R472	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R473	ERJ6GEYJ822	Carbon	8.2K ohms 1/10W
R474	YF2116563JT	Carbon	56K ohms 1/16W
R475	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R476	YF2116333GT	Carbon	33K ohms 1/16W
R481	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R482	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R483	YF2116333GT	Carbon	33K ohms 1/16W
R492	ERDS2TJ680	Carbon	68 ohms 1/4W
R493	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R494,495	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R496	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R497	YF2116333GT	Carbon	33K ohms 1/16W
R498	YF2116154JT	Carbon	150K ohms 1/16W
R499	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R501-503	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R504	ERJ6GEYJ622	Carbon	6.2K ohms 1/10W
R505	YWR1220P302D	Metal	3K ohms
R506	R1220P151D	Metal	150 ohms
R507	YWR1220P182D	Metal	1.8K ohms
R508	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R509	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R510	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R511	YWR1220P512D	Metal	5.1K ohms
R512	YWR1220P332D	Metal	3.3K ohms
R513	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R514	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R515	YF2116473GT	Carbon	47K ohms 1/16W
R516	ERJ6GEYJ273	Carbon	27K ohms 1/10W
R517	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R518	ERJ6GEYJ681	Carbon	680 ohms 1/10W
R519	ERJ6GEYJ821	Carbon	820 ohms 1/10W
R521	ERJ6GEYJ151	Carbon	150 ohms 1/10W
R522	YF2116202JT	Carbon	2K ohms 1/16w
R523	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R524	ERDS2TJ221	Carbon	220 ohms 1/4W
R525,526	YF2116131JT	Carbon	130 ohms 1/16W
R527	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R528,529	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R531,532	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R533	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R534	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R535	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R536,537	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R538	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R539	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R541	ERJ6GEYJ471	Carbon	470 ohms 1/10W
R542	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R543	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R544	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R545	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R546	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
R547-549	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R551	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R552	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R553	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R554	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R555	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R556	YF2116113JT	Carbon	11K ohms 1/16W
R557	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R558	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R559	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R561	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R602	ERF5TJ100	Wire Wound	10 ohms 5W
R603	ERC12ZGM156	Solid Resistor	15M ohms 1/2W
R604	ERJ6ENF2202	Metal	22Kohms
R605	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R606	ERJ6ENF3301	Metal	3.3Kohms
R607	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R608	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R609	ERD25FJ331	Carbon	330 ohms 1/4W
R610	ERDS1VJ224	Carbon	220K ohms 1/2W
R611	ERDS2TJ102	Carbon	1K ohms 1/4W
R612	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R613	ERJ6GEYJ334	Carbon	330K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R614	YF2116333GT	Carbon	33K ohms 1/16W
R615	ERDS2TJ102	Carbon	1K ohms 1/4W
R616	ERDS2TJ472	Carbon	4.7K ohms 1/4W
R617	ERDS1VJ224	Carbon	220K ohms 1/2W
R618,619	ERG2SJ470	Metal	47 ohms 2W
R621	ERDS2TJ101	Carbon	100 ohms 1/4W
R622	ERX2ANJ1R8	Metal	1.8 ohms
R623	ERG2ANJ333U	Metal	33K ohms 2W
R625	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R626	ERDS2TJ222	Carbon	2.2K ohms 1/4W
R627	ERDS1TJ102	Carbon	1K ohms 1/2W
R628	R1220P331D	Metal	330K ohms
R629	YWR1220P561D	Metal	560 ohms
R630	YF2116473GT	Carbon	47K ohms 1/16W
R631	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R632	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R633	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R634	ERX2SJ3R9	Metal	3.9 ohms
R635	YF2116303GT	Carbon	30K ohms 1/16W
R636	ERJ6ENF6200	Metal	620ohms
R637	ERJ6ENF3301	Metal	3.3Kohms
R638	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R639	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R640	YF2116333GT	Carbon	33K ohms 1/16W
R641	ERJ6ENF2202	Metal	22Kohms
R642	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R643	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R644	ERJ6ENF3301	Metal	3.3Kohms
R645	ERJ6GEYJ101	Carbon	100 ohms
R646	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R647	YF2116304JT	Carbon	300K ohms 1/16W
R648	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R649	ERJ6GEYJ820	Carbon	82 ohms 1/10W
R671	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R672	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R673	ERJ6GEYJ822	Carbon	8.2K ohms 1/10W
R674	YF2116563JT	Carbon	56K ohms 1/16W
R675	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R676	YF2116333GT	Carbon	33K ohms 1/16W
R681	ERJ6GEYJ224	Carbon	220K ohms 1/10W
R682	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R683	YF2116333GT	Carbon	33K ohms 1/16W
R692	ERDS2TJ680	Carbon	68 ohms 1/4W
R693	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R694,695	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R696	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R697	YF2116333GT	Carbon	33K ohms 1/16W
R698	YF2116154JT	Carbon	150K ohms 1/16W
R699	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R701-703	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R704	ERJ6GEYJ622	Carbon	6.2K ohms 1/10W
R705	YWR1220P302D	Metal	3K ohms
R706	R1220P151D	Metal	150 ohms
R707	YWR1220P182D	Metal	1.8K ohms
R708	ERJ6GEYJ103	Carbon	10K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R709	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R710	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R711	YWR1220P512D	Metal	5.1K ohms
R712	YWR1220P332D	Metal	3.3K ohms
R713	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R714	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R715	YF2116473GT	Carbon	47K ohms 1/16W
R716	ERJ6GEYJ273	Carbon	27K ohms 1/10W
R717	ERJ6GEYJ511	Carbon	510 ohms
R718	ERJ6GEYJ681	Carbon	680 ohms 1/10W
R719	ERJ6GEYJ821	Carbon	820 ohms 1/10W
R721	ERJ6GEYJ151	Carbon	150 ohms
R722	YF2116202JT	Carbon	2K ohms 1/16W
R723	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R724	ERDS2TJ221	Carbon	220 ohms 1/4W
R725,726	YF2116131JT	Carbon	130 ohms 1/16W
R727	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R728,729	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R731,732	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R733	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R734	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R735	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R736,737	ERJ6GEYJ331	Carbon	330 ohms
R738	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R739	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R741	ERJ6GEYJ471	Carbon	470 ohms 1/10W
R742	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R743	ERJ6GEYJ101	Carbon	100 ohms
R744	ERJ6GEYJ331	Carbon	330 ohms
R745	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R746	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
R747-749	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R751	ERJ6GEYJ101	Carbon	100 ohms
R752	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R753	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R754	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R755	ERJ6GEYJ330	Carbon	33K ohms 1/10W
R756	YF2116113JT	Carbon	11K ohms 1/16W
R757	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R758	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R759	ERJ6GEYJ104	Carbon	100K ohms
R761	ERJ6GEYJ102	Carbon	1K ohms 1/10W
VR1	EVML4GA00BC2	Variable Resistor	150 ohms
VR2,3	EVML4GA00B14	Variable Resistor	10K ohms
VR201	EVML4GA00BC2	Variable Resistor	150 ohms
VR202,203	EVML4GA00B14	Variable Resistor	10K ohms
VR401	EVML4GA00BC2	Variable Resistor	150 ohms
VR402,403	EVML4GA00B14	Variable Resistor	10K ohms
VR601	EVML4GA00BC2	Variable Resistor	150 ohms
VR602,603	EVML4GA00B14	Variable Resistor	10K ohms
C1	ECQU2A104MV	Plastic	0.1 µF
C2	ECQU2A333MV	Plastic	0.033 µF
C3	ECKDNS102MBX	Ceramic	1000 pF
C4	LGF2G470MHSZ	Electrolytic	47 µF 400V
C5	ECEA1HGE4R7	Electrolytic	4.7 µF 50V

REF.NO.	PART NO.	DESCRIPTION	
C6	ECQV1H104JZ	Plastic	0.1 µF 50V (TF)
C7,8	ECEA1HKG010	Electrolytic	1 µF 50V
C9	ECQF6103KZ	Plastic	0.01 µF 600V
C10	YF400103XKT	Ceramic	0.01 µF
C11	ECKD3A101KBN	Ceramic	100 pF 1KV
C12	ECA1HFQ221	Electrolytic	220 µF 50V
C14	ECA1VFQ121	Electrolytic	120 µF 35V
C15	ECEA1AU470	Electrolytic	47 µF 10V
C16	ECA1VFQ560	Electrolytic	56 µF 35V
C17	ECEA1ASS102	Electrolytic	1000 µF 10V
C18	ECA1HFQ100	Electrolytic	10 µF 50V
C19	YW400473XK	Ceramic	0.047 µF
C20	ECKDNS102MBX	Ceramic	1000 pF
C21	ECEA1HGE010	Electrolytic	1 µF 50V
C22	ECEA1HU331	Electrolytic	330 µF 50V
C23	ECA1CFQ390	Electrolytic	39 µF 16V
C24	ECEA1AU101	Electrolytic	100 µF 10V
C25	ECEA0JU470	Electrolytic	47 µF 6.3V
C26	ECEA1AU470	Electrolytic	47 µF 10V
C27	YF400103XKT	Ceramic	0.01 µF
C28	ECQP1H751JZ	Plastic	750 pF
C29	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C30	YF400101CHJT	Ceramic	100 pF
C31	ECEA1CU100	Electrolytic	10 µF 16V
C32	YF400103XKT	Ceramic	0.01 µF
C33	ECEA1AU470	Electrolytic	47 µF 10V
C34	ECEA1AU471	Electrolytic	470 µF 10V
C35,36	ECEA1AU101	Electrolytic	100 µF 10V
C37	YF400181CHJT	Ceramic	180 pF
C38	YF400101CHJT	Ceramic	100 pF
C39	YF400103XKT	Ceramic	0.01 µF
C40	YF400331CHJT	Ceramic	330 pF
C41	ECEA1CU101	Electrolytic	100 µF 16V
C42	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C43	YF400221CHJT	Ceramic	220 pF
C44	YF400103XKT	Ceramic	0.01 µF
C45	YF400221CHJT	Ceramic	220 pF
C46	YF400104FZT	Ceramic	0.1 µF
C47	YW400131CHJT	Ceramic	130 pF
C48	ECEA0JU470	Electrolytic	47 µF 6.3V
C49	ECEA1AU470	Electrolytic	47 µF 10V
C51	YF400181CHJT	Ceramic	180 pF
C52	YF400470CHJT	Ceramic	47 pF
C53	ECEA1AU471	Electrolytic	470 µF 10V
C54	YF400223XKT	Ceramic	0.022 µ F
C55	YF400150CHJT	Ceramic	15 pF
C56	ECEA0JU470	Electrolytic	47 µF 6.3V
C57	YF400104FZT	Ceramic	0.1 µF
C58,59	YF400223XKT	Ceramic	0.022 µF
C61	YF400223XKT	Ceramic	0.022 µF
C62	YF400104FZT	Ceramic	0.1 µF
C63	ECEA1AU470	Electrolytic	47 µF 10V
C64	YF400104FZT	Ceramic	0.1 µF
C65	YF400100CHDT	Ceramic	10 pF
C66	YF400104FZT	Ceramic	0.1 µF
C67	YF400682XKT	Ceramic	6800 pF
C68	YF400562XKT	Ceramic	5600 pF
C69	YF400182XKT	Ceramic	1800 pF
C71	ECEA1AU470	Electrolytic	47 µF 10V
C72	YF400470CHJT	Ceramic	47 pF
C73	ECEA1AU470	Electrolytic	47 µF 10V
C74	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C75	ECEA1AU470	Electrolytic	47µF 10V
C76	YF400222XKT	Ceramic	2200 pF
C77	ECEA1CU100	Electrolytic	10 µF 16V
C78	YW400154FZT	Ceramic	0.15 µF
C79	ECEA1AU101	Electrolytic	100 µF 10V
C81	YF400104FZT	Ceramic	0.1 µF
C82	ECEA1VU471	Electrolytic	470 µF 35V
C83	ECEA1VU100	Electrolytic	10 µF 35V
C84	ECEA1CU100	Electrolytic	10 µF 16V
C85	ECEA0JU102	Electrolytic	1000 µF 6.3V
C100	YF400101CHJT	Ceramic	100 pF
C201	ECQU2A104MV	Plastic	0.1 µF
C202	ECQU2A333MV	Plastic	0.033 µF
C203	ECKDNS102MBX	Ceramic	1000 pF
C204	LGF2G470MHSZ	Electrolytic	47 µF 40V
C205	ECEA1HGE4R7	Electrolytic	4.7 µF 50V
C206	ECQV1H104JZ	Plastic	0.1 µF 50V (TF)
C207,208	ECEA1HKG010	Electrolytic	1 µF 50V
C209	ECQF6103KZ	Plastic	0.01 µF 600V
C210	YF400103XKT	Ceramic	0.01 µF
C211	ECKD3A101KBN	Ceramic	100pF 1KV
C212	ECA1HFQ221	Electrolytic	220 µF 50V
C214	ECA1VFQ121	Electrolytic	120 µF 35V
C215	ECEA1AU470	Electrolytic	47 µF 10V
C216	ECA1VFQ560	Electrolytic	56 µF 35V
C217	ECEA1ASS102	Electrolytic	1000 µF 10V
C218	ECA1HFQ100	Electrolytic	10 µF 50V
C219	YW400473XK	Ceramic	0.047 µF
C220	ECKDNS102MBX	Ceramic	1000 pF
C221	ECEA1HGE010	Electrolytic	1 µF 50V
C222	ECEA1HU331	Electrolytic	330 µF 50V
C223	ECA1CFQ390	Electrolytic	39 µF 16V
C232	YF400103XKT	Ceramic	0.01 µF
C233	ECEA1AU470	Electrolytic	47 µF 10V
C235,236	ECEA1AU101	Electrolytic	100 µF 10V
C240	YF400331CHJT	Ceramic	330 pF
C241	ECEA1CU101	Electrolytic	100 µF 16V
C242	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C243,245	YF400221CHJT	Ceramic	220 pF
C246	YF400104FZT	Ceramic	0.1 µF
C247	YW400131CHJT	Ceramic	130 pF
C248	ECEA0JU470	Electrolytic	47 µF 6.3V
C249	ECEA1AU470	Electrolytic	47 µF 10V
C250	ECEA1CU100	Electrolytic	10 µF 16V
C251	YF400181CHJT	Ceramic	180 pF
C252	YF400470CHJT	Ceramic	47 pF
C253	ECEA1AU471	Electrolytic	470 µF 10V
C254	YF400223XKT	Ceramic	0.022 µF

REF.NO.	PART NO.	DESCRIPTION	
C255	YF400150CHJT	Ceramic	15 pF
C256	ECEA0JU470	Electrolytic	47 µF 6.3V
C257	YF400104FZT	Ceramic	0.1 µF
C258,259	YF400223XKT	Ceramic	0.022 µF
C261	YF400223XKT	Ceramic	0.022 µF
C262	YF400104FZT	Ceramic	0.1 µF
C263	ECEA1AU470	Electrolytic	47 µF 10V
C264	YF400104FZT	Ceramic	0.1 µF
C265	YF400100CHDT	Ceramic	10 pF
C266	YF400104FZT	Ceramic	0.1 µF
C267	YF400682XKT	Ceramic	6800 pF
C268	YF400562XKT	Ceramic	5600 pF
C269	YF400182XKT	Ceramic	1800 pF
C271	ECEA1AU470	Electrolytic	47µF 10V
C272	YF400470CHJT	Ceramic	47 pF
C273	ECEA1AU470	Electrolytic	47µF 10V
C274	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C275	ECEA1AU470	Electrolytic	47µF 10V
C276	YF400222XKT	Ceramic	2200 pF
C277	ECEA1CU100	Electrolytic	10 µF 16V
C278	YW400154FZT	Ceramic	0.15 µF
C279	ECEA1AU101	Electrolytic	100 µF 10V
C281	YF400104FZT	Ceramic	0.1 µF
C300	YF400101CHJT	Ceramic	100 pF
C401	ECQU2A104MV	Plastic	0.1 µF
C402	ECQU2A333MV	Plastic	0.033 µF
C403	ECKDNS102MBX	Ceramic	1000 pF
C404	LGF2G470MHSZ	Electrolytic	47 µF 40V
C405	ECEA1HGE4R7	Electrolytic	4.7 µF 50V
C406	ECQV1H104JZ	Plastic	0.1 µF 50V (TF)
C407,408	ECEA1HKG010	Electrolytic	1 µF 50V
C409	ECQF6103KZ	Plastic	0.01 µF 600V
C410	YF400103XKT	Ceramic	0.01 µF
C411	ECKD3A101KBN	Ceramic	100 pF 1KV
C412	ECA1HFQ221	Electrolytic	220 µF 50V
C414	ECA1VFQ121	Electrolytic	120 µF 35V
C415	ECEA1AU470	Electrolytic	47 µF 10V
C416	ECA1VFQ560	Electrolytic	56 µF 35V
C417	ECEA1ASS102	Electrolytic	1000 µF 10V
C418	ECA1HFQ100	Electrolytic	1 µF 50V
C419	YW400473XK	Ceramic	0.047 µF
C420	ECKDNS102MBX	Ceramic	1000 pF
C421	ECEA1HGE010	Electrolytic	1 µF 50V
C422	ECEA1HU331	Electrolytic	330 µF 50V
C423	ECA1CFQ390	Electrolytic	39 µF 16V
C432	YF400103XKT	Ceramic	0.01 µF
C433	ECEA1AU470	Electrolytic	47 µF 10V
C435,436	ECEA1AU101	Electrolytic	100 µF 10V
C440	YF400331CHJT	Ceramic	330 pF
C441	ECEA1CU101	Electrolytic	100 µF 16V
C442	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C443,445	YF400221CHJT	Ceramic	220 pF
C446	YF400104FZT	Ceramic	0.1 µF
C447	YW400131CHJT	Ceramic	130 pF
C448	ECEA0JU470	Electrolytic	47 µF 6.3V

REF.NO.	PART NO.	DESCRIPTION	
C449	ECEA1AU470	Electrolytic	47 µF 10V
C450	ECEA1CU100	Electrolytic	10 µF 16V
C451	YF400181CHJT	Ceramic	180 pF
C452	YF400470CHJT	Ceramic	47 pF
C453	ECEA1AU471	Electrolytic	470 µF 10V
C454	YF400223XKT	Ceramic	0.022 µF
C455	YF400150CHJT	Ceramic	15 pF
C456	ECEA0JU470	Electrolytic	47 µF 6.3V
C457	YF400104FZT	Ceramic	0.1 µF
C458,459	YF400223XKT	Ceramic	0.022 µF
C461	YF400223XKT	Ceramic	0.022 µF
C462	YF400104FZT	Ceramic	0.1 µF
C463	ECEA1AU470	Electrolytic	47 µF 10V
C464	YF400104FZT	Ceramic	0.1 µF
C465	YF400100CHDT	Ceramic	10 pF
C466	YF400104FZT	Ceramic	0.1 µF
C467	YF400682XKT	Ceramic	6800 pF
C468	YF400562XKT	Ceramic	5600 pF
C469	YF400182XKT	Ceramic	1800 pF
C471	ECEA1AU470	Electrolytic	47 µF 10V
C472	YF400470CHJT	Ceramic	47 pF
C473	ECEA1AU470	Electrolytic	47 µF 10V
C474	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C475	ECEA1AU470	Electrolytic	47 µF 10V
C476	YF400222XKT	Ceramic	2200 pF
C477	ECEA1CU100	Electrolytic	10 µF 16V
C478	YW400154FZT	Ceramic	0.15 µF
C479	ECEA1AU101	Electrolytic	100 µF 10V
C481	YF400104FZT	Ceramic	0.1 µF
C500	YF400101CHJT	Ceramic	100 pF
C601	ECQU2A104MV	Plastic	0.1 µF
C602	ECQU2A333MV	Plastic	0.033 µF
C603	ECKDNS102MBX	Ceramic	1000 pF
C604	LGF2G470MHSZ	Electrolytic	47 µF 60V
C605	ECEA1HGE4R7	Electrolytic	4.7 µF 50V
C606	ECQV1H104JZ	Plastic	0.1 µF 50V
C607,608	ECEA1HKG010	Electrolytic	1 µF 50V
C609	ECQF6103KZ	Plastic	0.01 µF 600V
C610	YF400103XKT	Ceramic	0.01 µF
C611	ECKD3A101KBN	Ceramic	100 pF 1KV
C612	ECA1HFQ221	Electrolytic	220 µF 50V
C614	ECA1VFQ121	Electrolytic	120 µF 35V
C615	ECEA1AU470	Electrolytic	47 µF 10V
C616	ECA1VFQ560	Electrolytic	56 µF 35V
C617	ECEA1ASS102	Electrolytic	1000 µF 10V
C618	ECA1HFQ100	Electrolytic	10 µF 50V
C619	YW400473XK	Ceramic	0.047 µF
C620	ECKDNS102MBX	Ceramic	1000 pF
C621	ECEA1HGE010	Electrolytic	1 µF 50V
C622	ECEA1HU331	Electrolytic	330 µF 50V
C623	ECA1CFQ390	Electrolytic	39 µF 16V
C632	YF400103XKT	Ceramic	0.01 µF
C633	ECEA1AU470	Electrolytic	47 µF 10V
C635,636	ECEA1AU101	Electrolytic	100 µF 10V
C640	YF400331CHJT	Ceramic	330 pF

REF.NO.	PART NO.	DESCRIPTION	
C641	ECEA1CU101	Electrolytic	100 µF 16V
C642	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C643,645	YF400221CHJT	Ceramic	220 pF
C646	YF400104FZT	Ceramic	0.1 µF
C647	YW400131CHJT	Ceramic	130 pF
C648	ECEA0JU470	Electrolytic	47 µF 6.3V
C649	ECEA1AU470	Electrolytic	47 µF 10V
C650	ECEA1CU100	Electrolytic	10 µF 16V
C651	YF400181CHJT	Ceramic	180 pF
C652	YF400470CHJT	Ceramic	47 pF
C653	ECEA1AU471	Electrolytic	470 µF 10V
C654	YF400223XKT	Ceramic	0.022 µF
C655	YF400150CHJT	Ceramic	15 pF
C656	ECEA0JU470	Electrolytic	47 µF 6.3V
C657	YF400104FZT	Ceramic	0.1 µF
C658,659	YF400223XKT	Ceramic	0.022 µF
C661	YF400223XKT	Ceramic	0.022 µF
C662	YF400104FZT	Ceramic	0.1 µF
C663	ECEA1AU470	Electrolytic	47 µF 10V
C664	YF400104FZT	Ceramic	0.1 µF
C665	YF400100CHDT	Ceramic	10 pF
C666	YF400104FZT	Ceramic	0.1 µF
C667	YF400682XKT	Ceramic	6800 pF
C668	YF400562XKT	Ceramic	5600 pF
C669	YF400182XKT	Ceramic	1800 pF
C671	ECEA1AU470	Electrolytic	47µF 10V
C672	YF400470CHJT	Ceramic	47 pF
C673	ECEA1AU470	Electrolytic	47µF 10V
C674	ECEA1HU010	Electrolytic	1 µF 50V (SU)
C675	ECEA1AU470	Electrolytic	47F 10V
C676	YF400222XKT	Ceramic	2200 pF
C677	ECEA1CU100	Electrolytic	10 µF 16V
C678	YW400154FZT	Ceramic	0.15 µF
C679	ECEA1AU101	Electrolytic	100 µF 10V
C681	YF400104FZT	Ceramic	0.1 µF
C700	YF400101CHJT	Ceramic	100 pF
C801,802	ECKDNS222MEX	Ceramic	2200 PF
L1	YFF603Y0R3	Coil	0.3 µH
L2	YWV90MMHCHA	Coil	
L3	EL05SI100K	Coil	10 µH
L4	YWTLC2045Z	Coil	
L5,6	EL05SI100K	Coil	10 µH
L7	ELF18D290R	Coil	
L201	YFF603Y0R3	Coil	0.3 µH
L202	YWV90MMHCHA	Coil	90 µH
L203	EL05SI100K	Coil	10 µH
L204	YWTLC2045Z	Coil	
L205,206	EL05SI100K	Coil	10 µH
L401	YFF603Y0R3	Coil	0.3 µH
L402	YWV90MMHCHA	Coil	90 µH
L403	EL05SI100K	Coil	10 µH
L404	YWTLC2045Z	Coil	
L405,406	EL05SI100K	Coil	10 µH
L601	YFF603Y0R3	Coil	0.3 µH
L602	YWV90MMHCHA	Coil	90 µH

REF.NO.	PART NO.	DESCRIPTION		
L603	EL05SI100K	Coil	10 µH	
L604	YWTLC2045Z	Coil		
L605,606	EL05SI100K	Coil	10 µH	
T1,201	YWCNT130E01	Power Transformer		
T401,601	YWCNT130E01	Power Transformer		
X1	YFLQV3M2760G	Crystal Oscillator	TE0011	
CF1	ELB4M081	Filter		
CF2,3	YWE112S	Ceramic Filter		
CF201	ELB4M081	Filter		
CF202,203	YWE112S	Ceramic Filter		
CF401	ELB4M081	Filter		
CF402,403	YWE112S	Ceramic Filter		
CF601	ELB4M081	Filter		
CF602,603	YWE112S	Ceramic Filter		
F1 ⚠	XBA2C20ET0A	Current Fuse	2A	250V
E1-3	YWPP120	Terminal		
E4,5	YWH00162	Fuse Holder		
E6	YF840620B	Insulator		
E7-10	YW851040	Insulator		
E12-15	N0.24B	Insulator		
CN1	YW530140610	6-pin Connector		
CN2	YW53014-0210	2-pin Connector		
CN3	YW530140410	4-pin Connector		
CN4	YW53014-0210	2-pin Connector		
CN201,401	YW530140610	6-pin Connector		
CN601	YW530140610	6-pin Connector		
M21	YWV2HA0470A4	Shield Parts		
M22	YWAC-256	Insulator		
M25	YFV7DA0045A4	Heat Sink A (X4)		
M26	YWV7DA0299A4	Heat Sink B (X4)		
M27	YWV1KA0073A4	Washer		
M28	YWV2PA0537A3	Insulator Paper (X2)		

LED BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB2	YWVRD104BE1A	Printed Board
D1	LN242RP	LED
E1	YWA2NA0300A4	Spacer

REAR L BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB3	YWVRB104BE1A	Printed Board
C811	ECKDNS222MEX	Ceramic 2200 pF
CN1	YWP2197	BNC Connector
CN2	YWT6495AAAA	RCA Connector
CN3	YWP2197	BNC Connector
CN4	YWT6495AAAA	RCA Connector
CN5	YWP2197	BNC Connector
CN6	YWT6495AAAA	RCA Connector
CN7	YWP2197	BNC Connector
CN8	YWT6495AAAA	RCA Connector

REAR S BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB4	YWVRC104BE1A	Printed Board
C810	ECKDNS222MEX	Ceramic 2200 pF
CN9	YWP2197	BNC Connector

ACCESSORY PARTS/PACKAGING PARTS

REF.NO.	PART NO.	DESCRIPTION
M31	YWA2SA1756A3	Mounting Angle
M32	YWV8QA2768AN	Operating Instructions
M34	XZB26X40C05	Polyethylene Bag
M35	XZB55X71C1	Polyethylene Bag
M36	YWT050803	Polyethylene Bag
M37	YWT20X25C03	Polyethylene Bag
M38	YWT20X35C03	Polyethylene Bag
M40	YWV9CA1800AN	Packaging Assy